



המרכז הרפואי האוניברסיטאי
סורוקה



דוח תוצאות בדיקה פתולוגית מס' 25-18290

לתשומת לר' הרופא

230

שם רפואי

שם משפחה

מין: נקבה שם האב: יעקב תאריך לידה: 09/08/1967 גיל: 58 כתובות: ניריות 0 נירים סלפון: 054-7916540

תאריך לקיחה: 22/09/2025 מס קבלת: 10:35 רופא שולח: ד"ר מאיר עמיה גורם שלוח: נשים אונקולוגיה מרפ סרו

צוות המבחן לפטולוגיה

רופא בכיר: ד"ר שמואלי בן ציון
פרטים קליניים:

.21/8/2025 מתאריך 25-16107/2/5 על ביופסיה מס' NGS.

הערות כלליות:

בדיקות קודמות:

25-18044, 25-16114, 25-16107, 25-15574

אבחנה:

Molecular Pathology Laboratory Test Results Oncomine™ Comprehensive Assay (OCA) by NGS

The test was performed on DNA extracted from biopsy #25-16107/2/5.

Tumor comprising 60% of the tissue submitted for analysis, as assessed on an H&E slide.

Test results:

- TMB score: 12.3 | High | Tier 1
- MSI: Stable
- Reportable Alterations In Clinically Significant Genes
 - FGFR2 (Detected): c.755C>G (p.Ser252Trp); see Tier 2 for details
 - PTEN (Detected): c.70G>T (p.Asp24Tyr); c.209+5G>C ; see Tier 2 for details
 - AKT1 (Not detected)
 - BRAF (Not detected)
 - CCNE1 (Not detected)
 - DPYD (Not detected)
 - ERBB2 (Not detected)
 - FBXW7 (Not detected)
 - MTAP (Not detected)
 - NRG1 (Not detected)
 - NTRK1 (Not detected)
 - NTRK2 (Not detected)
 - NTRK3 (Not detected)
 - POLE (Not detected)
 - PPP2R1A (Not detected)
 - RET (Not detected)
 - TP53 (Not detected)



המרכז הרפואי האוניברסיטאי
סורוקה



דוח תוצאות בדיקה פתולוגית מס' 25-18290

לתשומת לב הרופא

ת.ז : 2300713-1

שם רפואי : כרמיה

שם משפחה : אביעזר

Genomic alterations found in the sample:

TIER I: VARIANTS OF STRONG CLINICAL SIGNIFICANCE

TMB score: 12.3 | High | Therapeutic

TIER II: VARIANTS OF POTENTIAL CLINICAL SIGNIFICANCE

FGFR2 | p.Ser252Trp | c.755C>G | NM_000141.5 | VAF: 23.90% | Exon 7 | chr10:123279677 | Pathogenic, Potentially Therapeutic

PTEN | p.Asp24Tyr | c.70G>T | NM_000314.8 | VAF: 26.06% | Exon 1 | chr10:89624296 | Pathogenic, Potentially Therapeutic

PTEN | c.209+5G>C | NM_000314.8 | VAF: 26.36% | Exon 3 | chr10:89685319 | Likely Pathogenic, Potentially Therapeutic

Comment: This is a splice-site alteration that is predicted to be deleterious to protein function by AI models.

TIER III: VARIANTS OF UNCERTAIN CLINICAL SIGNIFICANCE

APC | p.Pro1993Leufs*51 | c.5978del | NM_000038.6 | VAF: 19.95% | Exon 16 | chr5:112177264 | Pathogenic

APC | p.Gln1303* | c.3907C>T | NM_000038.6 | VAF: 22.18% | Exon 16 | chr5:112175198 | Pathogenic

ADAMTS2 | p.Pro224Hisfs*23 | c.669del | NM_014244.5 | VAF: 24.38% | Exon 3 | chr5:178699930 | Likely Pathogenic

CTCF | p.Ala137Leufs*17 | c.409del | NM_006565.4 | VAF: 22.80% | Exon 3 | chr16:67645139 | Likely Pathogenic

PIK3R1 | p.Tyr580* | c.1740C>A | NM_181523.3 | VAF: 22.07% | Exon 13 | chr5:67591147 | Likely Pathogenic

SPOP | p.Arg121Gln | c.362G>A | NM_001007228.2 | VAF: 21.41% | Exon 5 | chr17:47696461 | Likely Pathogenic

KDM6A | p.Pro417Leufs*22 | c.1250del | NM_001291415.2 | VAF: 25.93% | Exon 13 | chrX:44919320 | Likely Pathogenic

CIC | p.Gly838Aspfs*112 | c.2513del | NM_001386298.1 | VAF: 22.05% | Exon 2 | chr19:42778443 | Likely Pathogenic

DPP3 | p.Glu653Serfs*179 | c.1956del | NM_130443.4 | VAF: 27.42% | Exon 17 | chr11:66272154 | VUS

ARID5B | p.Lys967Asnfs*15 | c.2901del | NM_032199.3 | VAF: 24.85% | Exon 10 | chr10:63852117 | VUS

ARID5B | p.Glu456Lysfs*23 | c.1365del | NM_032199.3 | VAF: 25.17% | Exon 9 | chr10:63845621 | VUS

ACVR1B | p.Arg67Cys | c.199C>T | NM_004302.5 | VAF: 8.25% | Exon 2 | chr12:52369156 | VUS

KMT2B | p.Arg1705Gln | c.5114G>A | NM_014727.3 | VAF: 19.86% | Exon 24 | chr19:36221280 | VUS

NF1 | p.Arg135Trp | c.403C>T | NM_001042492.3 | VAF: 23.35% | Exon 4 | chr17:29490318 | VUS

CD276 | p.Ser411Leu | c.1232C>T | NM_001024736.2 | VAF: 47.51% | Exon 6 | chr15:73996676 | VUS

PIK3R1 | p.Glu683Lys | c.2047G>A | NM_181523.3 | VAF: 23.15% | Exon 16 | chr5:67593301 | VUS

KEAP1 | p.Tyr33His | c.97T>C | NM_203500.2 | VAF: 32.69% | Exon 2 | chr19:10610613 | VUS

TMEM233 | p.Ala86Val | c.257C>T | NM_001136534.3 | VAF: 16.87% | Exon 2 | chr12:120067611 | VUS

ARID5B | p.Asp242Asn | c.724G>A | NM_032199.3 | VAF: 15.27% | Exon 4 | chr10:63760071 | VUS

COPY NUMBER VARIANTS

- No CNV to report



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סורוקה



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لتשומת לב הרופא

ת.ז : 2300713-1

שם פרטי : כרמית

שם משפחה : אביעזר

Fusions found in the sample:

- No fusions found to report.

These results should be taken into consideration with all clinical information concerning the patient's condition in accordance with the standard of care.

General information:

The Ion Torrent™ Oncomine™ Comprehensive Assay v3 is a targeted, next-generation sequencing (NGS) assay that enables the detection of relevant single-nucleotide variants (SNVs), copy number variations (CNVs), gene fusions, and indels. Oncomine™ Comprehensive Panel is used to construct the library and sequencing is performed using Ion Torrent sequencing system.

This NGS test for identifying alterations in cancer related genes in FFPE tumor tissue was validated by the molecular pathology unit in Soroka University Medical Center and approved by the Israeli Ministry of Health.

Validation showed 100% specificity for each mutation tested and a 1% limit of detection.

The test is aimed to detect hotspot mutations in 165 genes, CNV variants in 333 genes, CDS in 227 genes and 51 fusions driver genes linked to cancer, such as:

DNA based alterations: AKT1, ALK, AR, BRAF, BRCA 1/2, CDK4, CTNNB1, DDR2, EGFR, ERBB2, ERBB3, ERBB4, ESR1, FGFR1-4, GNA11, GNAQ, HRAS, IDH1, IDH2, JAK1-3, KIT, KRAS, MAP2K2, MET, MTOR, NRAS, MAP2K1, MAP2K2, MET, MTOR, NRAS, PDGFRA, PIK3CA, RAF1, RET, ROS1, SMO.

RNA based alterations: AXL, BRAF, BRCA1, BRCA2, ERBB2, ERG, ETV1, ETV4, ETV5, FGFR1, FGFR2, FGFR3, MET, NTRK1-3, PDGFRA, PPARG, RAF1, RET, ROS1.

The test was performed by the molecular laboratory under the direction of Dr. Natalie Aisenberg.

סה"כ 1 דגימות.

תאריך הדפסה:
15:57 15/10/2025

תאריך הפעזה:
15:57 15/10/2025

תאריך אישור:
15:53 15/10/2025

ד"ר שמואלי בן ציון
רופא מומחה בפטולוגיה

מסמך הממוחשב נערך ו"נסגר" באופן אלקטרוני ומוזהה במחשב ע"י הרופא הפטולוג. המסמך המקורי נתפס בכתב ע"י הרופא הפטולוג ונמצא בארכיון המכון הפטולוגי. המסמך מכיל מידע חסוי על פי חוק הגנת הפרטיות וחוק זכויות החולים.

דוח תוצאות בדיקה פתולוגית מס' 25-18290

لتשומת לב הרופא

ת.ז.: 2300713-1

שם רפואי: כרמיה

שם משפחה: אביעזר

Soroka Medical Center
Pathology Institute
Report date: 15/10/2025



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Female I

Cancer Type: endometrial carcinoma | Tumor Purity: 60.000% | Tumor Cellularity: | Tissue Type: FFPE

Summary

| High (12.3 Muts/Mb) TMB | Stable (4.17) MSI | 4 Relevant Biomarkers | 1 Therapies Available | 8 Clinical Trials |
|----------------------------|----------------------|--------------------------|--------------------------|----------------------|
|----------------------------|----------------------|--------------------------|--------------------------|----------------------|

Comments

No CNV found to report

Reportable Alterations In Clinically Significant Genes

| Gene | Detected | Finding |
|---------|--------------|--------------------------------------|
| AKT1 | Not detected | |
| BRAF | Not detected | |
| CCNE1 | Not detected | |
| DPYD | Not detected | |
| ERBB2 | Not detected | |
| FBXW7 | Not detected | |
| FGFR2 | Detected | c.755C>G (p.Ser252Trp); |
| MTAP | Not detected | |
| NRG1 | Not detected | |
| NTRK1 | Not detected | |
| NTRK2 | Not detected | |
| NTRK3 | Not detected | |
| POLE | Not detected | |
| PPP2R1A | Not detected | |
| PTEN | Detected | c.70G>T (p.Asp24Tyr); c.209+5G>C; |

דוח תוצאות בדיקה פטולוגית מס' 18290-25

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2300713-1 : ۲۷

שם פרטי: כרמית

שם משפחה: אביעזר

א'

Report date: 15/10/2025

| | | |
|------|--------------|--|
| RET | Not detected | |
| TP53 | Not detected | |

Strong clinical significance - Tier 1

| | | |
|------------|---|----------------|
| TMB | Responsive to: Pembrolizumab Pembrolizumab Pembrolizumab Pembrolizumab Pembrolizumab Resistance to: None | 12.3 Mut/Mb |
|------------|---|----------------|

Potential clinical significance - Tier 2

| | | | |
|--|---|---|-----------------------------|
| | FGFR2 <i>c.755C>G</i> p.Ser252Trp | chr10:123279677-123279677 Transcript: NM_000141.5 Responsive to: Ponatinib Resistance to: None | 23.90% Allelic Frequency |
|--|---|---|-----------------------------|

| | | | |
|--|--------------------------------------|--|-----------------------------|
| | PTEN c.70G>T p.Asp24Tyr | chr10:89624296-89624296 Transcript: NM_000314.8 Responsive to: Capivasertib Resistance to: None | 26.06% Allelic Frequency |
|--|--------------------------------------|--|-----------------------------|

| | | | |
|--|---------------------------|--|-----------------------------|
| | PTEN c.209+5G>C | chr10:89685319-89685319 Transcript: NM_000314.8 Responsive to: Capivasertib Resistance to: None | 26.36% Allelic Frequency |
|--|---------------------------|--|-----------------------------|

Unknown clinical significance - Tier 3

| | | |
|--|---|-----------------------------|
| APC c.5978del p.Pro1993Leufs*51 | chr5:112177264-112177265 Transcript: NM_000038.6 Responsive to: None Resistance to: None | 19.95% Allelic Frequency |
|--|---|-----------------------------|

| | | |
|---------------------------------------|--|-----------------------------|
| APC c.3907C>T p.Gln1303* | chr5:112175198-112175198 Transcript NM_000038.6 Responsive to: None Resistance to: None | 22.18% Allelic Frequency |
|---------------------------------------|--|-----------------------------|

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لتשומת רב הרופא

ת.ז.: 2300713-1

שם פרטי: כרמית

שם משפחה: אביעזר

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Report date: 15/10/2025

| | | |
|---|---|-----------------------------|
| ADAMTS2 c.669del p.Pro224Hisfs*23 | chr5:178699930-178699931 Transcript: NM_014244.5 Responsive to: None Resistance to: None | 24.38% Allelic Frequency |
| CTCF c.409del p.Ala137Leufs*17 | chr16:67645139-67645140 Transcript: NM_006565.4 Responsive to: None Resistance to: None | 22.80% Allelic Frequency |
| PIK3R1 c.1740C>A p.Tyr580* | chr5:67591147-67591147 Transcript: NM_181523.3 Responsive to: None Resistance to: None | 22.07% Allelic Frequency |
| SPOP c.362G>A p.Arg121Gln | chr17:47696461-47696461 Transcript: NM_001007228.2 Responsive to: None Resistance to: None | 21.41% Allelic Frequency |
| KDM6A c.1250del p.Pro417Leufs*22 | chrX:44919320-44919321 Transcript: NM_001291415.2 Responsive to: None Resistance to: None | 25.93% Allelic Frequency |
| CIC c.2513del p.Gly838Aspfs*112 | chr19:42778443-42778444 Transcript: NM_001386298.1 Responsive to: None Resistance to: None | 22.05% Allelic Frequency |
| DPP3 c.1956del p.Glu653Serfs*179 | chr11:66272154-66272155 Transcript: NM_130443.4 Responsive to: None Resistance to: None | 27.42% Allelic Frequency |
| ARID5B c.2901del p.Lys967Asnfs*15 | chr10:63852117-63852118 Transcript: NM_032199.3 Responsive to: None Resistance to: None | 24.85% Allelic Frequency |
| ARID5B c.1365del p.Glu456Lysfs*23 | chr10:63845621-63845622 Transcript: NM_032199.3 Responsive to: None Resistance to: None | 25.17% Allelic Frequency |

דוח תוצאות בדיקה פתולוגית מס' 25-18290

לתשומת הרופא

ת.ז.: 2300713-1

שם פרטי: כרמית

שם משפחה: אביעזר

אכ

Report date: 15/10/2025

| | | |
|---------|---|-----------------------------|
| ACVR1B | chr12:52369156-52369156 Transcript: NM_004302.5 Responsive to: None Resistance to: None | 8.25% Allelic Frequency |
| KMT2B | chr19:36221280-36221280 Transcript: NM_014727.3 Responsive to: None Resistance to: None | 19.86% Allelic Frequency |
| NF1 | chr17:29490318-29490318 Transcript: NM_001042492.3 Responsive to: None Resistance to: None | 23.35% Allelic Frequency |
| CD276 | chr15:73996676-73996676 Transcript: NM_001024736.2 Responsive to: None Resistance to: None | 47.51% Allelic Frequency |
| PIK3R1 | chr5:67593301-67593301 Transcript: NM_181523.3 Responsive to: None Resistance to: None | 23.15% Allelic Frequency |
| KEAP1 | chr19:10610613-10610613 Transcript: NM_203500.2 Responsive to: None Resistance to: None | 32.69% Allelic Frequency |
| TMEM233 | chr12:120067611-120067611 Transcript: NM_001136534.3 Responsive to: None Resistance to: None | 16.87% Allelic Frequency |
| ARID5B | chr10:63760071-63760071 Transcript: NM_032199.3 Responsive to: None Resistance to: None | 15.27% Allelic Frequency |
| MSI | Responsive to: None Resistance to: None | |

דוח תוצאות בדיקה פתולוגית מס' 25-18290

لتשומת לב הרופא

ת.ז : 2300713-1

שם רפואי : כרמיה

שם משפחה : אביעזר

אכ

Report date: 15/10/2025

Relevant Therapy

| TMB-HIGH | | |
|------------------|-----|------|
| Relevant Therapy | FDA | NCCN |
| Pembrolizumab | A | A |

(A) In this cancer type (B) Based on well powered studies (C) In other cancer type (D) Based on preclinical studies (-) No evidence

*Showing the most advanced clinical trial phase

| FGFR2 p.Ser252Trp | | |
|---------------------|-----|------|
| Relevant Therapy | FDA | NCCN |
| Ponatinib | - | - |

(A) In this cancer type (B) Based on well powered studies (C) In other cancer type (D) Based on preclinical studies (-) No evidence

*Showing the most advanced clinical trial phase

| PTEN p.Asp24Tyr | | |
|-------------------|-----|------|
| Relevant Therapy | FDA | NCCN |
| Capivasertib | C | - |

(A) In this cancer type (B) Based on well powered studies (C) In other cancer type (D) Based on preclinical studies (-) No evidence

*Showing the most advanced clinical trial phase

| PTEN c.209+5G>C | | |
|-------------------|-----|------|
| Relevant Therapy | FDA | NCCN |
| Capivasertib | C | - |

(A) In this cancer type (B) Based on well powered studies (C) In other cancer type (D) Based on preclinical studies (-) No evidence

*Showing the most advanced clinical trial phase

Relevant Clinical Trials

| Details | Status | ID | Phase | Biomarkers |
|--|------------|---|-------|----------------------|
| Phase I/II Safety and Pharmacodynamic Study of Neoadjuvant (NACT) Paclitaxel and Carboplatin With Ipatasertib as Initial Therapy of Ovarian Cancer PTMA 100805 | Recruiting | NCT5276973 https://clinicaltrials.gov/ct2/show/NCT05276973 | 1 | PTEN p.Asp24Tyr PTEN |
| Phase IB/II Study of Alpelisib in Combination With Paclitaxel in Patients With PIK3CA-altered Metastatic/Recurrent Gastric Cancer | Recruiting | NCT4526470 https://clinicaltrials.gov/ct2/show/NCT04526470 | 1 2 | PTEN p.Asp24Tyr PTEN |

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שם משפחה : אביעזר

אכ

Report date: 15/10/2025

| | | | | |
|--|------------|--|-----|---|
| A Multi-Center Phase I Dose Escalation Study of Avotometinib, a RAF/MEK Clamp, in Pediatric Patients With Refractory or Recurrent Solid Tumors Harboring Activating MAPK Pathway Alterations | Recruiting | NCT6104488 https://clinicaltrials.gov/ct2/show/NCT06104488 8http://www.mskcc.org | 1 | NF1 p.Arg135Trp |
| A Phase II Study of Tazemetostat in Solid Tumors Harboring an ARID1A Mutation | Recruiting | NCT5023655 https://clinicaltrials.gov/ct2/show/NCT05023655 | 2 | PTEN p.Asp24Tyr PTEN |
| An Open-Label, Multicenter, First-in-Human, Dose-Escalation and Dose-Expansion, Phase 1/2 Study of BBI-355 and BBI-355 in Combination With Select Targeted Therapies in Subjects With Locally Advanced or Metastatic Solid Tumors With Oncogene Amplifications | Recruiting | NCT5827614 https://clinicaltrials.gov/ct2/show/NCT05827614 | 1 | FGFR2 p.Ser252Trp |
| A Phase 2, Open Label Study of REC-4881 in Participants With Unresectable Locally Advanced or Metastatic Cancer With AXIN1 or APC Mutation | Recruiting | NCT6005974 https://clinicaltrials.gov/ct2/show/NCT06005974 | 2 | APC p.Pro1993Leufs*51 APC p.Gln1303* |
| A Phase 1/2 Study of FOG-001 in Participants With Locally Advanced or Metastatic Solid Tumors | Recruiting | NCT5919264 https://clinicaltrials.gov/ct2/show/NCT05919264 | 1 2 | APC p.Pro1993Leufs*51 APC p.Gln1303* |
| A Multicenter, Open-label, First-in-Human Study of TYRA-200 in Advanced Intrahepatic Cholangiocarcinoma and Other Solid Tumors With Activating FGFR2 Gene Alterations (SURF-201) | Recruiting | NCT6160752 https://clinicaltrials.gov/ct2/show/NCT06160752 | 1 | FGFR2 p.Ser252Trp |

Interpretation

Strong clinical significance - Tier 1

TMB-HIGH

THERAPEUTIC EVIDENCE

Below is list of therapies for which evidence was found associated with the tumor profile

✓ Responsive

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דוח תוצאות בדיקה פתולוגית מס' 25-18290*****لتשומת הרופא*****

ת.ז : 2300713-1

שם רפואי : כרמית

שם משפחה : אביעזר

אכ

Report date: 15/10/2025

Pembrolizumab

FDA Approved

Anti-PD-1 monoclonal antibody

PMID: N/A

FDA-Approved pembrolizumab for the treatment of adult and pediatric patients with unresectable or metastatic tumor mutational burden-high (TMB-H) [≥ 10 mutations/megabase (mut/Mb)] solid tumors that have progressed following prior treatment and who have no satisfactory alternative treatment options.

Pembrolizumab

FDA Approved

Anti-PD-1 monoclonal antibody

PMID: N/A

FDA-Approved pembrolizumab is indicated for the treatment of adult and pediatric patients with unresectable or metastatic tumor mutational burden-high (TMB-H) [≥ 10 mutations/megabase (mut/Mb)] solid tumors, as determined by an FDA-approved test, that have progressed following prior treatment and who have no satisfactory alternative treatment options. Clinical Feature: Disease stage: unresectable or metastatic disease

Pembrolizumab

FDA Approved

Anti-PD-1 monoclonal antibody

PMID: N/A

FDA-Approved pembrolizumab is indicated for the treatment of adult and pediatric patients with unresectable or metastatic tumor mutational burden-high (TMB-H) [≥ 10 mutations/megabase (mut/Mb)] solid tumors, as determined by an FDA-approved test, that have progressed following prior treatment and who have no satisfactory alternative treatment options. Clinical Feature: Disease stage: unresectable or metastatic disease

Pembrolizumab

FDA Approved

Anti-PD-1 monoclonal antibody

PMID: N/A

FDA-Approved pembrolizumab for the treatment of adult and pediatric patients with unresectable or metastatic tumor mutational burden-high (TMB-H) [≥ 10 mutations/megabase (mut/Mb)] solid tumors that have progressed following prior treatment and who have no satisfactory alternative treatment options.

Pembrolizumab

Professional Guidelines

Anti-PD-1 monoclonal antibody

PMID: N/A

The NCCN Panel recommends pembrolizumab as first-line or subsequent therapy option for advanced, recurrent/metastatic or inoperable Endometrial carcinoma (category 2A, useful in certain circumstances). For the treatment of patients with unresectable or metastatic tumor mutational burden-high (TMB-H) [≥ 10 mutations/megabase (mut/Mb)] tumors, as determined by a validated and/or FDA-approved test, that have progressed following prior treatment and have no satisfactory alternative treatment options.

Resistance

No responsive therapeutic evidence related to this biomarker was found

DIAGNOSTIC EVIDENCE

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דוח תוצאות בדיקה פתולוגית מס' 25-18290

لتשומת לב הרופא

ת.ז.: 2300713-1

שם רפואי: כרמיה

שם משפחה: אביעזר

אכ

Report date: 15/10/2025

Below is list of evidences pertain to tumor profile's diagnostic attributes

No diagnostic evidence related to this biomarker was found

PROGNOSTIC EVIDENCE

Below is list of evidences pertain to tumor profile's prognostic attributes

No prognostic evidence related to this biomarker was found

Potential clinical significance - Tier 2

FGFR2 | p.Ser252Trp

p.Ser252Trp | c.755C>G | NM_000141.5 | CHR10: 123279677 None | VAF: 23.90% | Coverage: 2000 | COSMIC ID: COSM41289;COSV60638319 | rs79184941 | ClinVar ID: RCV000552015, RCV004532334, RCV004527288, RCV000014192, RCV005229786, RCV000014191, RCV002476961, RCV004795407, RCV000263144

GENE SUMMARY

Fibroblast growth factor receptor 2 (FGFR2), is a receptor tyrosine kinase, member of the fibroblast growth factor receptor (FGFR) family. Binding of FGF ligands to FGFR2 activates downstream signaling pathways including RAS-MAPK and PI3K-AKT. Altered Fgfr2 function may lead to increased cell proliferation and tumorigenesis, and FGFR2 amplifying, fusions, overexpression or activating mutations occur in multiple cancers including prostate, lung, gastric, ameloblastomas, uterine, breast, and ovarian cancers. FGFR2-BICC1 fusion is observed in metastatic cholangiocarcinoma, FGFR2-AFF3 fusion in breast cancer, SLC45A3-FGFR2 fusion in prostate cancer and brain metastasis, and FGFR2-CIT fusion identified in a lung adenocarcinoma

VARIANT INTERPRETATION

p.Ser252Trp, a non synonymous variant in the FGFR2, an oncogene. The variant does not reside in any known domain. The variant was reported in COSMIC (COSM41289,COSV60638319) and ClinVar (13272). The variant was classified as a Tier 2 using the ASCO/CAP/AMP Guidelines and as Pathogenic according to the ACMG Guidelines.

THERAPEUTIC EVIDENCE

Below is list of therapies for which evidence was found associated with the tumor profile

✓ Responsive

Ponatinib

Preclinical Studies

Multikinase inhibitor, Tyrosine kinase inhibitor

PMID: N/A

"Preclinical study in endometrial cancer cell lines (MFE-296, AN3CA, MFE-280 and Ishikawa). In cell proliferation assays, the three FGFR2 mutant cell lines were more sensitive to the pan-FGFR inhibitor ponatinib (AP24534) than the FGFR2 wild type cell line (Ishikawa) and human embryonic kidney cell line (HEK293). Ponatinib also inhibited FGFR2 kinase activity and phosphorylation (MFE-296 and MFE-280) as well as cell migration and invasion (MFE-296 and AN3CA) of FGFR2 mutated cancer cell lines."

✗ Resistance

No resistant therapeutic evidence related to this biomarker was found

DIAGNOSTIC EVIDENCE

Below is list of evidences pertain to tumor profile's diagnostic attributes

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דוח תוצאות בדיקה פתולוגית מס' 25-18290

لتשומת רב הרופא

ת.ז : 2300713-1

שם פרטי : כרמית

שם משפחה : אביעזר

אכ

Report date: 15/10/2025

No diagnostic evidence related to this biomarker was found

PROGNOSTIC EVIDENCE

Below is list of evidences pertain to tumor profile's prognostic attributes

No prognostic evidence related to this biomarker was found

PTEN | p.Asp24Tyr

p.Asp24Tyr | c.70G>T | NM_000314.8 | CHR10: 89624296 None | VAF: 26.06% | Coverage: 1017 | COSMIC ID: COSM305668;COSV64288588 | rs786201995 | ClinVar ID: RCV000169787, RCV003454429, RCV004535153

GENE SUMMARY

Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase (PTEN), is a tumor suppressor with roles in the cell cycle, growth, DNA repair, cell survival and regulation of the Akt-mTOR pathway. PTEN is one of the most frequently mutated genes in human cancer. PTEN somatic alterations including R130G, R130Q, R130*, R233*, T319fs, T267fs, and R173C and loss of function mutations have been found in many types of cancer including, melanoma, endometrial, and prostate. PTEN germline mutations are common in a group of disorders referred to jointly as the 'PTEN hamartoma tumor syndrome (PHTS)', which is associated with glioma, breast and thyroid cancer.

VARIANT INTERPRETATION

p.Asp24Tyr, a non synonymous variant in the PTEN, a tumor suppressor gene. The variant does not reside in any known domain. The variant was reported in COSMIC (COSM305668,COSV64288588) and ClinVar (189398). The variant was classified as a Tier 2 using the ASCO/CAP/AMP Guidelines and as Pathogenic according to the ACMG Guidelines.

THERAPEUTIC EVIDENCE

Below is list of therapies for which evidence was found associated with the tumor profile

✓ Responsive

Capivasertib

FDA Approved for Different

Serine/threonine protein kinase inhibitor

PMID: N/A

FDA-Approved capivasertib in combination with fulvestrant, is indicated for the treatment of adult patients with hormone receptor (HR)-positive, human epidermal growth factor receptor 2 (HER2)-negative, locally advanced or metastatic breast cancer with one or more PIK3CA/AKT1/PTEN-alteration as detected by an FDA-approved test following progression on at least one endocrine-based regimen in the metastatic setting or recurrence on or within 12 months of completing adjuvant therapy.

∅ Resistance

No resistant therapeutic evidence related to this biomarker was found

DIAGNOSTIC EVIDENCE

Below is list of evidences pertain to tumor profile's diagnostic attributes

No diagnostic evidence related to this biomarker was found

PROGNOSTIC EVIDENCE

Below is list of evidences pertain to tumor profile's prognostic attributes

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דוח תוצאות בדיקה פתולוגית מס' 25-18290

لتשומת לב הרופא

ת.ז : 2300713-1

שם רפואי : כרמיה

שם משפחה : אביעזר

אכ

Report date: 15/10/2025

No prognostic evidence related to this biomarker was found

PTEN | c.209+5G>C

c.209+5G>C | NM_000314.8 | CHR10: 89685319 None | VAF: 26.36% | Coverage: 1476 | COSMIC ID: | ClinVar ID: RCV001345910, RCV001587366

GENE SUMMARY

Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase (PTEN), is a tumor suppressor with roles in the cell cycle, growth, DNA repair, cell survival and regulation of the Akt-mTOR pathway. PTEN is one of the most frequently mutated genes in human cancer. PTEN somatic alterations including R130G, R130Q, R130*, R233*, T319fs, T267fs, and R173C and loss of function mutations have been found in many types of cancer including, melanoma, endometrial, and prostate. PTEN germline mutations are common in a group of disorders referred to jointly as the 'PTEN hamartoma tumor syndrome (PHTS)', which is associated with glioma, breast and thyroid cancer.

VARIANT INTERPRETATION

c.209+5G>C, a variant in the PTEN, a tumor suppressor gene. The variant does not reside in any known domain. The variant was reported in ClinVar (1042020). The variant was classified as a Tier 2 using the ASCO/CAP/AMP Guidelines and as Likely Pathogenic according to the ACMG Guidelines.

THERAPEUTIC EVIDENCE

Below is list of therapies for which evidence was found associated with the tumor profile

✓ Responsive

Capivasertib

FDA Approved for Different

Serine/threonine protein kinase inhibitor

PMID: N/A

FDA-Approved capivasertib in combination with fulvestrant, is indicated for the treatment of adult patients with hormone receptor (HR)-positive, human epidermal growth factor receptor 2 (HER2)-negative, locally advanced or metastatic breast cancer with one or more PIK3CA/AKT1/PTEN-alteration as detected by an FDA-approved test following progression on at least one endocrine-based regimen in the metastatic setting or recurrence on or within 12 months of completing adjuvant therapy.

✗ Resistance

No resistant therapeutic evidence related to this biomarker was found

DIAGNOSTIC EVIDENCE

Below is list of evidences pertain to tumor profile's diagnostic attributes

No diagnostic evidence related to this biomarker was found

PROGNOSTIC EVIDENCE

Below is list of evidences pertain to tumor profile's prognostic attributes

No prognostic evidence related to this biomarker was found

General Information

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דוח תוצאות בדיקה פתולוגית מס' 25-18290

لتשומת לב הרופא

ת.ז : 2300713-1

שם פרטי : כרמית

שם משפחה : אביעזר

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Report date: 15/10/2025

The Ion Torrent™ Oncomine™ Comprehensive Assay v3 is a targeted, next-generation sequencing (NGS) assay that enables the detection of relevant single-nucleotide variants (SNVs), copy number variations (CNVs), gene fusions, and indels. Oncomine™ Comprehensive Panel is used to construct the library and sequencing is performed using Ion Torrent Sequencing System.
This Next Generation Sequencing (NGS) test for identifying alterations in cancer related genes in FFPE tumor tissue was validated by the molecular pathology unit in Soroka University Medical Center and approved by Israeli Ministry of Health.
Validation showed 100% specificity for each mutation tested and 1% limit of detection.

דוח תוצאות בדיקה פתולוגית מס' 25-18290*****לתשומת לב הרופא*****

ת.ז : 2300713-1

שם רפואי : כרמית

שם משפחה : אביעזר

Soroka Medical Center
Pathology Institute
Report date: 15/10/2025

**א&כ**

Female |

Cancer Type: | **Tumor Purity:** 60.000% | **Tumor Cellularity:** | **Tissue Type:** FFPE**SUMMARY**

| Relevant Biomarkers | Therapies Available | Clinical Trials | TMB | MSI |
|---------------------|---------------------|-----------------|---------------------|----------------|
| 4 | 1 | 8 | High 12.3 Mut/Mb | Stable 4.17 |

Reportable Alterations In Clinically Significant Genes

AKT1 (Not detected)
BRAF (Not detected)
CCNE1 (Not detected)
DPYD (Not detected)
ERBB2 (Not detected)
FBXW7 (Not detected)
FGFR2 (Detected): c.755C>G (p.Ser252Trp);
MTAP (Not detected)
NRG1 (Not detected)
NTRK1 (Not detected)
NTRK2 (Not detected)
NTRK3 (Not detected)
POLE (Not detected)
PPP2R1A (Not detected)
PTEN (Detected): c.70G>T (p.Asp24Tyr); c.209+5G>C ;
RET (Not detected)
TP53 (Not detected)

TIER I: VARIANTS OF STRONG CLINICAL SIGNIFICANCE

None identified in the genes covered by this panel.

TIER II: VARIANTS OF POTENTIAL CLINICAL SIGNIFICANCE

FGFR2 | p.Ser252Trp | c.755C>G | NM_000141.5 | VAF: 23.90% | Exon 7 | chr10:123279677 | Pathogenic

PTEN | p.Asp24Tyr | c.70G>T | NM_000314.8 | VAF: 26.06% | Exon 1 | chr10:89624296 | Pathogenic

PTEN | c.209+5G>C | NM_000314.8 | VAF: 26.36% | Exon 3 | chr10:89685319 | Likely Pathogenic

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TIER III: VARIANTS OF UNCERTAIN CLINICAL SIGNIFICANCE

APC | p.Pro1993Leufs*51 | c.5978del | NM_000038.6 | VAF: 19.95% | Exon 16 | chr5:112177264 | Pathogenic**APC** | p.Gln1303* | c.3907C>T | NM_000038.6 | VAF: 22.18% | Exon 16 | chr5:112175198 | Pathogenic**ADAMTS2** | p.Pro224Hisfs*23 | c.669del | NM_014244.5 | VAF: 24.38% | Exon 3 | chr5:178699930 | Likely Pathogenic**CTCF** | p.Ala137Leufs*17 | c.409del | NM_006565.4 | VAF: 22.80% | Exon 3 | chr16:67645139 | Likely Pathogenic**PIK3R1** | p.Tyr580* | c.1740C>A | NM_181523.3 | VAF: 22.07% | Exon 13 | chr5:67591147 | Likely Pathogenic**SPOP** | p.Arg121Gln | c.362G>A | NM_001007228.2 | VAF: 21.41% | Exon 5 | chr17:47696461 | Likely Pathogenic**KDM6A** | p.Pro417Leufs*22 | c.1250del | NM_001291415.2 | VAF: 25.93% | Exon 13 | chrX:44919320 | Likely Pathogenic**CIC** | p.Gly838Aspfs*112 | c.2513del | NM_001386298.1 | VAF: 22.05% | Exon 2 | chr19:42778443 | Likely Pathogenic**DPP3** | p.Glu653Serfs*179 | c.1956del | NM_130443.4 | VAF: 27.42% | Exon 17 | chr11:66272154 | VUS**ARID5B** | p.Lys967Asnfs*15 | c.2901del | NM_032199.3 | VAF: 24.85% | Exon 10 | chr10:63852117 | VUS**ARID5B** | p.Glu456Lysfs*23 | c.1365del | NM_032199.3 | VAF: 25.17% | Exon 9 | chr10:63845621 | VUS**ACVR1B** | p.Arg67Cys | c.199C>T | NM_004302.5 | VAF: 8.25% | Exon 2 | chr12:52369156 | VUS**KMT2B** | p.Arg1705Gln | c.5114G>A | NM_014727.3 | VAF: 19.86% | Exon 24 | chr19:36221280 | VUS**NF1** | p.Arg135Trp | c.403C>T | NM_001042492.3 | VAF: 23.35% | Exon 4 | chr17:29490318 | VUS**CD276** | p.Ser411Leu | c.1232C>T | NM_001024736.2 | VAF: 47.51% | Exon 6 | chr15:73996676 | VUS**PIK3R1** | p.Glu683Lys | c.2047G>A | NM_181523.3 | VAF: 23.15% | Exon 16 | chr5:67593301 | VUS**KEAP1** | p.Tyr33His | c.97T>C | NM_203500.2 | VAF: 32.69% | Exon 2 | chr19:10610613 | VUS**TMEM233** | p.Ala86Val | c.257C>T | NM_001136534.3 | VAF: 16.87% | Exon 2 | chr12:120067611 | VUS**ARID5B** | p.Asp242Asn | c.724G>A | NM_032199.3 | VAF: 15.27% | Exon 4 | chr10:63760071 | VUS

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