Virtual IHC Analysis Report

Analysis Information

Session ID:	d918049b-5dc1-468c-8f8c-2b40e8e59a95
Original File:	An_InDepth_Look_at_the_Hematoxylin_Eosin_HE_StainPart_1.png
Analysis Date:	2025-08-07 20:14:49
Processing Time:	0:00:03.111195
Status:	COMPLETED

Analysis Results

HER2 Status:	positive
Confidence Score:	77.9%
Cancer Grade:	Grade 3
Biomarker Expression:	73.6%
Staining Intensity:	strong

Quantitative Analysis

Positive Cells:	1073
Total Cells:	1459
Positive Percentage:	73.5%
Stained Area:	72.7%

Summary

Summary: AI analysis shows HER2 status as POSITIVE with 77.9% confidence.

Key Findings:
• HER2 Status: POSITIVE
• Cancer Grade: Grade 3
• Biomarker Expression: 73.6%

• Staining Intensity: strong

Analysis performed using advanced AI image conversion from H&E; to virtual IHC.

Recommendations

Recommendations:
• Consider HER2-targeted therapy (e.g., trastuzumab)
• Evaluate for combination with chemotherapy
• Monitor for cardiotoxicity during treatment
• Consider genetic counseling if familial history present

Technical Notes

Technical Analysis Notes:

Image Processing:
• Original H&E; image successfully processed
• Virtual IHC generation completed using deep learning model
• Image quality: Suitable for analysis

Analysis Parameters:
• Model confidence: 77.9%
• Processing time: 3.1 seconds
• Image resolution: Maintained from original

Quality Metrics:
• Biomarker detection accuracy: High
• Morphological preservation: Excellent
• Artifact level: Minimal