

Anti-Centrin, clone 20H5

Monoclonal Antibody

Cat. # 04-1624

Lot # 3112607

FOR RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC PROCEDURES
NOT FOR HUMAN OR ANIMAL CONSUMPTION

pack size: 100 µg

Store at 2-8°C



Certificate of Analysis

page 1 of 2

| Applications | Species Cross-Reactivity | Antibody Isotype | Epitope/Region | Host Species | Molecular Weight | Accession # |
|--------------|--------------------------|------------------|----------------|--------------|------------------|-------------|
| WB, IP, IC | H, M, R | IgG2ak | C-terminus | M | 20 kDa | NP_004057 |

Background

Centrin is a key regulator of centriole duplication. This protein is localized to the centrosome of interphase cells. During mitosis, centrin redistributes to the spindle poles, consistent with dynamic changes of the centrosome during the cell cycle. Current research suggests centrin exerts spatial and temporal control over centriole duplication through its role as a component of centriole precursor structures and through periodic cell-cycle specific changes in its abundance.

Presentation

Purified mouse monoclonal IgG2ak in buffer containing 0.1 M Tris-Glycine (pH 7.4, 0.15M NaCl) with 0.05% sodium azide.

Concentration

1.0 mg/mL

Specificity

This antibody recognizes the C-terminus of Centrin.

Species Cross-reactivity

Demonstrated to react with human, mouse and rat.

Immunogen

Recombinant protein corresponding to the C-terminus of Chlamydomonas Centrin.

Molecular Weight

~ 20 kDa

Method of Purification

Protein G Purified

Storage and Handling

Stable for 1 year at 2-8°C from date of receipt..

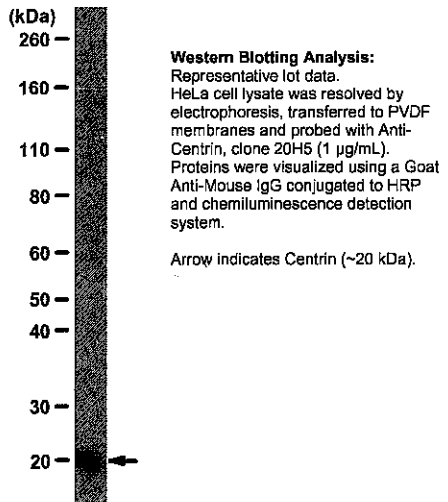
Control

HeLa cell lysate

Quality Control Testing

Evaluated by Western Blotting in HeLa cell lysate.

Western Blotting Analysis: 1 µg/mL of this antibody detected Centrin on 10 µg of HeLa cell lysate.



References

- Sanders, M.A., et al. (1994). *The Journal of Cell Biology*. 124(5):795-805.
- Manandhar, G., et al. (1999). *Cell Motility and the Cytoskeleton*. 43:137-144.
- Tsang, W.Y., et al. (2006) *Mol. Biol. Cell*, 17:3423-3434.
- Krauss, S.W., et al. (2008). *Molecular and Cellular Biology*. 28:2283-2294.
- Fant, X., et al. (2009). *Journal of Cell Science*. 122:1134-1144.
- Sillibourne, J.E., et al. (2010). *Molecular Biology of the Cell*. 21:547-561.

APPLICATION LEGEND: WB Western Blotting IP Immunoprecipitation IC Immunocytochemistry IF Immunofluorescence

IH Immunohistochemistry (Tissue) IH(P) Immunohistochemistry (Paraffin) FC Flow Cytometry

SPECIES LEGEND: H Human M Mouse R Rat Rb Rabbit WR Most Common Vertebrates

Please visit www.millipore.com for additional product information, test data and references.

Submit your published journal article, and earn credit toward future Millipore purchases. Visit www.millipore.com/publicationrewards to learn more!

Additional Research Applications

Immunocytochemistry Analysis:

A representative lot of this antibody was used by an independent laboratory in IC. See Manandhar, G., *et al.* (1999).

Immunoprecipitation Analysis:

A representative lot of this antibody was used by an independent laboratory in IP. See Tsang,W.Y., *et al.* (2006)

PROTOCOL

Western Blotting

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on cell lysate and transfer the proteins to a PVDF membrane. Wash the PVDF membrane twice with water.
2. Block the blotted PVDF membrane in freshly prepared 5% BSA or milk with 0.05% Tween®-20 for 1 hour at room temperature with constant agitation.
3. Incubate the PVDF with the recommended dilution of the primary antibody, diluted in freshly prepared 5% BSA or milk for 1 hour at room temperature or overnight with agitation at 2-8°C.
4. Wash the PVDF 3 times with TBST.
5. Incubate the PVDF in the secondary reagent of choice in 5% milk for 1 hour with agitation at room temperature.
6. Wash the PVDF 3-5 times with TBST.
7. Use Spray and Glow Catalog # 17-373 to visualize results. Use as directed.

(Tween is a registered trademark of ICI Americas, Inc.)

RELATED PRODUCTS (specific)

| cat # | description |
|---------|--|
| AP124P | ■ Goat anti-Mouse IgG, Peroxidase Conjugated, H+L |
| MAB3035 | ■ Anti-Nucleus and Mitotic Cell Antigen, clone A73-B/D12 |
| 07-1348 | ■ Anti-phospho-PLK1 (Ser137) |

RELATED PRODUCTS (non-specific)

| cat # | description |
|-------------|--|
| WBAVDBASE | ■ SNAP i.d. Protein Detection System |
| WBAVDABTR | ■ SNAP i.d. Antibody Collection Tray |
| WBAVDROLL | ■ SNAP i.d. Blot Roller |
| WBAVDBH03 | ■ SNAP i.d. Triple Well Blot Holder |
| WBAVDBH01 | ■ SNAP i.d. Single Well Blot Holder |
| WBAVDBH02 | ■ SNAP i.d. Double Well Blot Holder |
| IPVH00010 | ■ Immobilon-P 26.5 cm x 3.75 m Roll PVDF 0.45 µm |
| IPFL00010 | ■ Immobilon-FL 26.5 cm x 3.75 m Roll PVDF 0.45 µm |
| IPVH07850 | ■ Immobilon-P 7 x 8.4 cm PVDF 0.45 mm (sheet) 50/pk |
| ISEQ00010 | ■ Immobilon-P SQ 26.5 cm x 3.75 m 1 roll PVDF 0.2 µm |
| ISEQ07850 | ■ Immobilon-P 7 x 8.4 cm PVDF 0.2 mm (sheet) 50/pk |
| IPFL07810 | ■ Immobilon-FL 7 x 8.4 cm PVDF 0.45 mm (sheet) 10/pk |
| WBKLS0100 | ■ Immobilon Western Chemilum HRP Substrate 100 mL |
| 17-373 | ■ Spray & Glow™ ECL WB Detection System 1 ea |
| 2060 | ■ Re-Blot Western Blot Recycling Kit |
| 2500 | ■ Re-Blot Plus Western Blot Recycling Kit |
| B2080-175GM | ■ Blot Quick Blocker Membrane Blocking Agent 175G |

■ antibodies ■ Multiplex products ■ blottools ■ cell culture ■ enzymes ■ kits ■ proteins/peptides ■ siRNA/cDNA products

Please visit www.millipore.com for additional product information, test data and references

EMD Millipore Corporation, 28820 Single Oak Drive, Temecula, CA 92590, USA 1-800-437-7500

Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502

FOR RESEARCH USE ONLY. Not for use in diagnostic procedures. Not for human or animal consumption. Purchase of this Product does not include any right to resell or transfer, either as a stand-alone product or as a component of another product. Any use of this Product for purposes other than research is strictly prohibited.

Merck Millipore, the M mark, Upstate, Chemicon, Linco and all other trademarks, unless specifically identified above in the text as belonging to a third party, are owned by Merck KGaA, Darmstadt. Copyright ©2008-2018 Merck KGaA, Darmstadt Germany. All rights reserved.



We Buy 100% Certified Renewable Energy