

CEP55 (D1L4H) Rabbit mAb

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	55	Rabbit IgG	#Q53EZ4	55165

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

CEP55 (D1L4H) Rabbit mAb recognizes endogenous levels of total CEP55 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val459 of human CEP55 protein.

Background

The 55 kDa centrosomal protein (CEP55) is a widely expressed centrosome and midbody-associated protein that regulates cytokinesis, including completion of the final step during cytokinesis known as abscission (1,2). CEP55 activity during abscission is negatively regulated by p53 through Polo-like kinase 1 (3,4). The breast and ovarian cancer DNA repair protein BRCA2 interacts with CEP55 and plays a regulatory role during abscission (5). Research studies demonstrate that CEP55 is also involved in the regulation of Akt signaling, autophagy, and may be a biomarker in human cancer (reviewed in 6). The correlated overexpression of CEP55, the transcription factor FoxM1, and the HELLS helicase is seen in head and neck squamous cell carcinoma (7,8). Additional studies demonstrate that CEP55 expression regulates cell proliferation in gastric carcinoma (9).

Background References

1. Fabbro, M. et al. (2005) *Dev Cell* 9, 477-88.
2. Zhao, W.M. et al. (2006) *Mol Biol Cell* 17, 3881-96.
3. Bastos, R.N. and Barr, F.A. (2010) *J Cell Biol* 191, 751-60.
4. Chang, Y.C. et al. (2012) *J Biol Chem* 287, 4376-85.
5. Mondal, G. et al. (2012) *Dev Cell* 23, 137-52.
6. Jeffery, J. et al. (2015) *Oncogene*, [Epub ahead of print].
7. Janus, J.R. et al. (2011) *Laryngoscope* 121, 2598-603.
8. Waseem, A. et al. (2010) *Oral Oncol* 46, 536-42.
9. Tao, J. et al. (2014) *Tumour Biol* 35, 4389-99.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

XP is a registered trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no

force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.