

CEP55 (D1L4H) Rabbit mAb

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

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