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KD-Validated Anti-CEP55 Mouse Monoclonal Antibody

Mouse monoclonal Antibody
Catalog # AGI2172

Specification

KD-Validated Anti-CEP55 Mouse Monoclonal Antibody - Product Information

Application	**WB**
Primary Accession	Q53EZ4
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**Predicted, 54 kDa, observed, 54 kDa KDa**
Gene Name	**CEP55**
Aliases	**CEP55; Centrosomal Protein 55; C10orf3; CT111; Up-Regulated In Colon Cancer 6; Centrosomal Protein Of 55 KDa; Cancer/Testis Antigen 111; Centrosomal Protein 55kDa; FLJ10540; URCC6; Chromosome 10 Open Reading Frame 3; MARCH; Cep55**
Immunogen	**Recombinant protein of human CEP55**

KD-Validated Anti-CEP55 Mouse Monoclonal Antibody - Additional Information

Gene ID	**55165**

Other Names
Centrosomal protein of 55 kDa {ECO:0000312|HGNC:HGNC:1161}, Cep55, Up-regulated in colon cancer 6, CEP55 (HGNC:1161)

KD-Validated Anti-CEP55 Mouse Monoclonal Antibody - Protein Information

Name CEP55 (HGNC:1161)

Function
Plays a role in mitotic exit and cytokinesis (PubMed:16198290, PubMed:17853893). Recruits PDCD6IP and TSG101 to midbody during cytokinesis. Required for successful completion of cytokinesis (PubMed:17853893). Not required for microtubule nucleation (PubMed:16198290). Plays a role in the development of the brain and kidney (PubMed:28264986).

Cellular Location
Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole.

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cleavage furrow. Midbody, Midbody ring. Note=Present at the centrosomes at interphase. A small portion is associated preferentially with the mother centriole, whereas the majority localizes to the pericentriolar material. During mitosis, loses affinity for the centrosome at the onset of prophase and diffuses throughout the cell. This dissociation from the centrosome is phosphorylation-dependent. May remain localized at the centrosome during mitosis in certain cell types. Appears at the cleavage furrow in late anaphase and in the midbody in cytokinesis

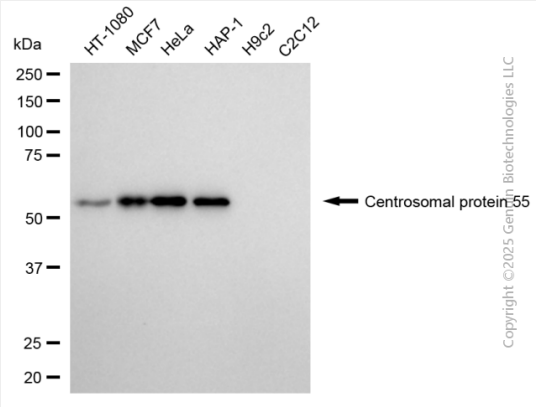
Tissue Location
Expressed in embryonic brain (PubMed:28264986). Expressed in fetal brain ganglionic eminence, kidney tubules and multinucleate neurons in the temporal cortex (PubMed:28264986) Expressed in adult brain, cerebellum, kidney tubules, intestine and muscles (at protein level) (PubMed:28264986, PubMed:28295209). Widely expressed, mostly in proliferative tissues. Highly expressed in testis Intermediate levels in adult and fetal thymus, as well as in various cancer cell lines. Low levels in different parts of the digestive tract, bone marrow, lymph nodes, placenta, fetal heart and fetal spleen. Hardly detected in brain.

KD-Validated Anti-CEP55 Mouse Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-CEP55 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-centrosomal protein 55 antibody (Cat#AGI2172). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-centrosomal protein 55 antibody (Cat#AGI2172, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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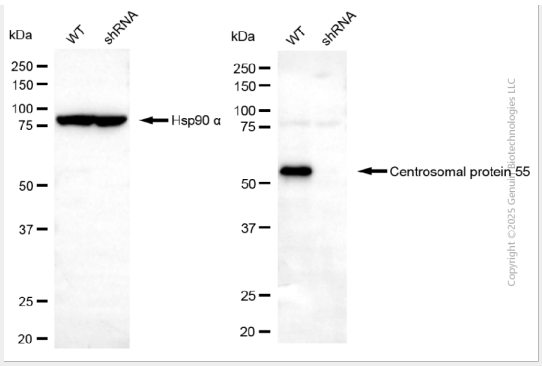

Western blotting analysis using anti-centrosomal protein 55 antibody (Cat#AGI2172). Centrosomal protein 55 expression in wild-type (WT) and centrosomal protein 55 (CEP55) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-centrosomal protein 55 antibody (Cat#AGI2172, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.