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KD-Validated Anti-CEP55 Mouse Monoclonal Antibody

Mouse monoclonal Antibody
Catalog # AGI2172

Product Information

Application	WB
Primary Accession	Q53EZ4
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB14080
Calculated MW	54178
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

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)

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. Midbody. 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.

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