10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CEP55 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8586a

Product Information

Application	WB, E
Primary Accession	Q53EZ4
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22365
Calculated MW	54178
Antigen Region	38-64

Additional Information

Gene ID	55165
Other Names	Centrosomal protein of 55 kDa, Cep55, Up-regulated in colon cancer 6, CEP55, C10orf3, URCC6
Target/Specificity	This CEP55 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 38-64 amino acids from the N-terminal region of human CEP55.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CEP55 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

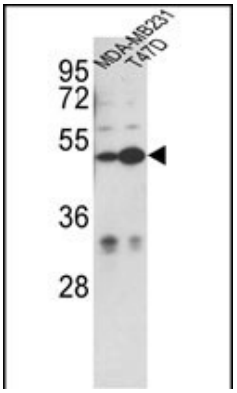
Background

CEP55 Plays a role in mitotic exit and cytokinesis. Not required for microtubule nucleation. Recruits PDCD6IP and TSG101 to midbody during cytokinesis.

References

Grupe,A., et.al., Am. J. Hum. Genet. 78 (1), 78-88 (2006)
Fabbro,M., et.al., Dev. Cell 9 (4), 477-488 (2005)

Images



Western blot analysis of CEP55 Antibody (N-term) (Cat. #AP8586a) in MDA-MB231, T47D cell line lysates (35ug/lane). CEP55 (arrow) was detected using the purified Pab.