

Rabbit anti-Human, Mouse CEP55 Polyclonal Antibody | anti-CEP55 antibody

Phospho-CEP55 (Ser425) Antibody

CATALOG # AAA329793	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

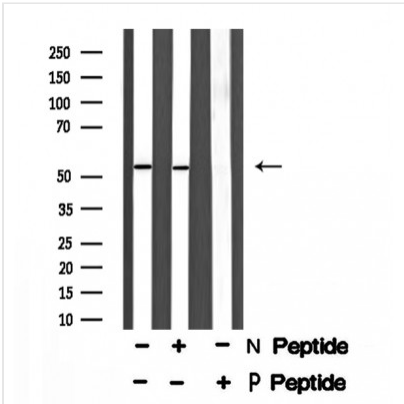
CEP55; Polyclonal Antibody; Phospho-CEP55 (Ser425) Antibody; C10orf3; cancer/testis antigen 111; Centrosomal protein 55kDa; Centrosomal protein of 55kDa; CEP 55; Cep55; CEP55_HUMAN; CT111; FLJ10540; Up regulated in colon cancer 6; Up-regulated in colon cancer 6; URCC 6; URCC6; anti-CEP55 antibody

PRODUCT SPECIFICATIONS

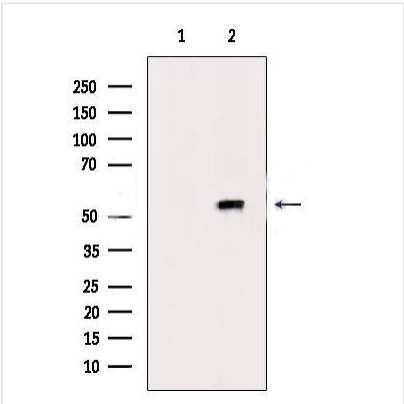
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-CEP55 (Ser425) Antibody detects endogenous levels of CEP55 only when phosphorylated at Ser425. Tissue Specificity: Expressed in embryonic brain. Expressed in fetal brain ganglionic eminence, kidney tubules and multinucleate neurons in the temporal cortex. Expressed in adult brain, cerebellum, kidney tubules, intestine and muscles (at protein level). 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.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CEP55 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CEP55 around the phosphorylation site of Ser425.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	There is a hierarchy of phosphorylation, where both Ser-425 and Ser-428 are phosphorylated at the onset of mitosis, prior to Ser-436. Phosphorylation at Ser-425 and Ser-428 is required for dissociation from the centrosome at the G2/M boundary. Phosphorylation at the 3 sites, Ser-425, Ser-428 and Ser-436, is required for protein function at the final stages of cell division to complete cytokinesis successfully.
Subunit Structure	Homodimer. Interacts (phosphorylated on Ser-425 and Ser-428) with PLK1. Interacts with AKAP9/CG-NAP; the interaction occurs in interphase and is lost upon mitotic entry. Interacts with PCNT/Kendrin; the interaction occurs in interphase and is lost upon mitotic entry. Directly interacts with PDCD6IP; this interaction is required for PDCD6IP targeting to the midbody; CEP55 binds PDCD6IP in a 2:1 stoichiometry; PDCD6IP competes with TSG101 for the same binding site. Interacts with TSG101; TSG101 competes with PDCD6IP for the same binding site; interaction is required for cytokinesis but not for viral budding. Interacts with MVB12A, VPS37B, VPS37C and VPS28.

Subcellular 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.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
 Western blot analysis of CEP55 (Phospho-Ser425) using EGF treated NIH-3T3 whole cell lysates. -/+ means absence or presence of N peptide¼non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)
 Western blot analysis of extracts from heat-shock treated MDA-MB-231 cells, using Phospho-CEP55 (Ser425) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CEP55 antibody	Plays a role in mitotic exit and cytokinesis. Recruits PDCD6IP and TSG101 to midbody during cytokinesis. Required for successful completion of cytokinesis. Not required for microtubule nucleation. Plays a role in the development of the brain and kidney.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	187608545
NCBI GeneID	55165
NCBI Accession #	NP_001120654.1
NCBI GenBank Nucleotide #	NM_001127182.1
UniProt Accession #	Q53EZ4; Q32WF5; Q3MV20; Q5VY28; Q6N034; Q96H32; Q9NV57; B2RDG8
Molecular Weight	54,178 Da
NCBI Official Full Name	centrosomal protein of 55 kDa
NCBI Official Synonym Full Names	centrosomal protein 55kDa
NCBI Official Symbol	CEP55
NCBI Official Synonym Symbols	CT111; URCC6; C10orf3
NCBI Protein Information	centrosomal protein of 55 kDa; cancer/testis antigen 111; up-regulated in colon cancer 6
UniProt Protein Name	Centrosomal protein of 55 kDa
UniProt Gene Name	CEP55

UniProt Synonym Gene Names	C10orf3; URCC6; Cep55
UniProt Entry Name	CEP55_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cep55-antibody-peptide-elisa-western-blot-elisa/329793>