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Anti-CEP55 Antibody
Rabbit polyclonal antibody to CEP55
Catalog # AP60907

Specification

Anti-CEP55 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q53EZ4
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**54178**

Anti-CEP55 Antibody - Additional Information

Gene ID 55165

Other Names
C10orf3; URCC6; Centrosomal protein of 55 kDa; Cep55; Up-regulated in colon cancer 6

Target/Specificity
Recognizes endogenous levels of CEP55 protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/50 - 1/100)
IHC~~1:100~500

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-CEP55 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

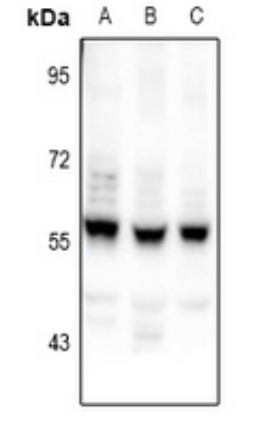
Tissue Location
Expressed in embryonic brain (PubMed:28264986). Expressed in fetal brain ganglionic eminence, kidney tubules and multinucleate neurons in the temporal cortex (PubMed:28264986) Expressed in adult brain, cerebellum, kidney tubules, intestine and muscles (at protein level) (PubMed:28264986, 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.

Anti-CEP55 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

Anti-CEP55 Antibody - Images



Western blot analysis of CEP55 expression in HEK293T (A), HCT116 (B), A549 (C) whole cell lysates.

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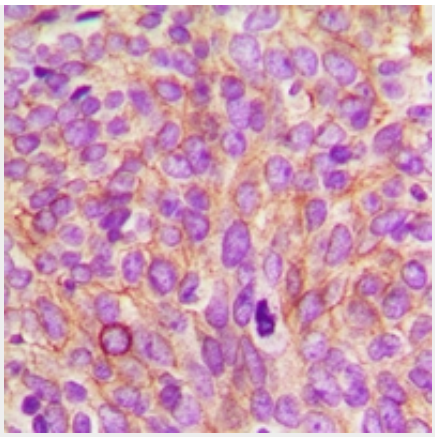

Immunohistochemical analysis of CEP55 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-CEP55 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CEP55. The exact sequence is proprietary.