

## **Anti-Centriolin antibody**



**Description** Rabbit polyclonal to Centriolin.

Model STJ92219

**Host** Rabbit

**Reactivity** Human

**Applications** ELISA, IHC

**Immunogen** Synthesized peptide derived from human Centriolin.

Immunogen Region C-terminal

**Gene ID** <u>9738</u>

Gene Symbol CCP110

**Dilution range** IHC 1:100-1:300ELISA 1:40000

**Specificity** Centriolin Polyclonal Antibody detects endogenous levels of Centriolin

protein.

**Tissue Specificity** Highly expressed in testis. Detected at intermediate levels in spleen, thymus,

prostate, small intestine, colon and peripheral blood leukocytes.

**Purification** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

**Note** For Research Use Only (RUO).

Protein Name Centriolar coiled-coil protein of 110 kDa Centrosomal protein of 110 kDa

CP110 Cep110

Molecular Weight 113.424 kDa

**Clonality** Polyclonal

**Conjugation** Unconjugated

**Isotype** IgG

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Concentration** 1 mg/ml

**Storage Instruction** Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links HGNC:243420MIM:609544

Alternative Names Centriolar coiled-coil protein of 110 kDa Centrosomal protein of 110 kDa

CP110 Cep110

Function Necessary for centrosome duplication at different stages of procentriole

formation. Acts as a key negative regulator of ciliogenesis in collaboration with CEP97 by capping the mother centriole thereby preventing cilia formation . Also involved in promoting ciliogenesis. May play a role in the assembly of the mother centriole subdistal appendages (SDA) thereby effecting the fusion of recycling endosomes to basal bodies during cilia formation . Required for correct spindle formation and has a role in regulating cytokinesis and genome stability via cooperation with CALM1 and CETN2 .

**Cellular Localization** Cytoplasm, cytoskeleton, microtubule organizing center, centrosome,

centriole Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

Cytoplasm, cytoskeleton, cilium basal body. Recruited early and then associates with the growing distal tips. Recruited to the mother centriole by KIF24. Removed from centrioles by TTBK2, leading to initiation of ciliogenesis and localizes only to the daughter centriole in ciliated cells. In

cytotoxic T lymphocytes remains associated with the mother centriole during docking of the centrosome at the immunological synapse upon target contact.

Post-translational Modifications

Phosphorylated by CDKs. Ubiquitinated by the SCF(CCNF) during G2 phase, leading to its degradation by the proteasome and preventing centrosome reduplication. Deubiquitinated by USP33 in S and G2/M phase, leading to stabilize CCP110 during the period which centrioles duplicate and elongate.

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