CP250 Rabbit pAb

CatalogNo: YN0579

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse	• IHC,IF

MW	Isotype
• 268kD (Observed)	• IgG

Recommended Dilution Ratios

IHC 1:50-300
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol,0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from part region of human protein
Specificity	CP250 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name	CEP250 CEP2 CNAP1

Protein Name Centrosome-associated protein CEP250 (250 kDa centrosomal protein) (Cep250) (Centrosomal Nek2-associated protein 1) (C-Nap1) (Centrosomal protein 2)

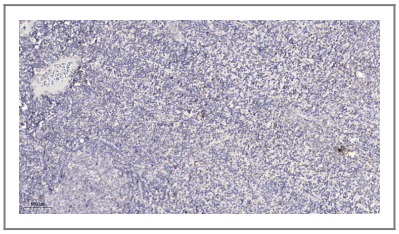
Organism	Gene ID	UniProt ID
Human	11190;	Q9BV73;
Mouse		Q60952;

Cellular Localization Cytoplasm, perinuclear region . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cytoplasm, cytoskeleton, cilium basal body . Cell projection, cilium, photoreceptor outer segment . Photoreceptor inner segment . Component of the core centrosome. In interphase cells, it specifically associates with the proximal ends of both mother and daughter centrioles. Associates with the centrosome in interphase cells. In mitotic cells, it dissociates from the mitotic spindle poles. At the end of cell division, it reaccumulates at centrosomes.

Tissue specificity Ubiquitously and weakly expressed.

Function Disease:Antibodies against CEP2 are present in sera from patients with autoimmune diseases that developed autoantibodies against centrosomal proteins.,Function:Probably plays an important role in centrosome cohesion during interphase.,PTM:Differentially phosphorylated during cell cycle. Phosphorylation may regulate association/dissociation from centrosome. During M phase of mitosis, C-terminal part is phosphorylated by NEK2, suggesting that it may trigger the dissociation from the mitotic centrosome. Dephosphorylated in vitro by the PP1 phosphatase.,subcellular location:Component of the core centrosome. In interphase cells, it specifically associates with the proximal ends of both mother and daughter centrioles. Associates with the centrosome in interphase cells. In mitotic cells, it dissociates from the mitotic spindle poles. At the end of cell division, it reaccumulates at centrosomes. In photoreceptors, found at the proximal ends of basal bodies.,subunit:Monomer and homodimer (Probable). Interacts with CROCC/rootletin (By similarity). Forms a complex in vitro with both NEK2 kinase and the PPP1CC catalytic subunit of protein phosphatase 1 (PP1).,tissue specificity:Ubiquitously and weakly expressed.,

Validation Data



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

Contact information

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