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**Product Name: CP250 Rabbit Polyclonal Antibody****Catalog #: APRab09293**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	IHC, ICC/IF
<b>Reactivity</b>	Human, Rat, Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	IHC 1:50-1:300, ICC/IF 1:50-1:200
<b>Molecular Weight</b>	268kDa

**Antigen Information**

<b>Gene Name</b>	CEP250
<b>Alternative Names</b>	CEP2 CNAP1
<b>Gene ID</b>	11190.0
<b>SwissProt ID</b>	Q9BV73
<b>Immunogen</b>	Synthesized peptide derived from part region of human protein

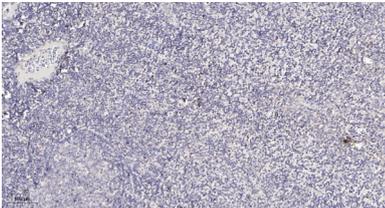
**Background**

centrosomal protein 250(CEP250) Homo sapiens This gene encodes a core centrosomal protein required for centriole-centriole cohesion during interphase of the cell cycle. The encoded protein dissociates from the centrosomes when parental centrioles separate at the beginning of mitosis. The protein associates with and is phosphorylated by NIMA-related kinase 2,

which is also associated with the centrosome. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015],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.,

## Research Area

## Image 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) .