

CCDC21 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP58824

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q6P2H3
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	85639

Additional Information

Gene ID	64793
Other Names	Centrosomal protein of 85 kDa, Cep85, Coiled-coil domain-containing protein 21, CEP85, CCDC21
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CEP85 (HGNC:25309)
Synonyms	CCDC21
Function	Acts as a regulator of centriole duplication through a direct interaction with STIL, a key factor involved in the early steps of centriole formation. The CEP85-STIL protein complex acts as a modulator of PLK4-driven cytoskeletal rearrangements and directional cell motility (PubMed: 29712910 , PubMed: 32107292). Acts as a negative regulator of NEK2 to maintain the centrosome integrity in interphase. Suppresses centrosome disjunction by inhibiting NEK2 kinase activity (PubMed: 26220856).
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole. Nucleus, nucleolus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Cytoplasm, cell cortex. Note=Localizes to centrosomes and nucleolus in interphase. Upon entry into mitosis, relocates from nucleolus and accumulates at spindle poles (PubMed:21399614). Associated with the pericentriolar material Localizes to centrosomes at a low level in G1 phase

and a slightly increased level in S phase, with gradually elevated levels during G2 phase. The levels at centrosomes further increase at G2/M, reaching a peak at spindle poles at early mitotic stages and remain high until the end of anaphase (PubMed:26220856). Localizes at the leading edge (PubMed:32107292).

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