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CCDC66 Antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15582

Product Information

Application	WB
Primary Accession	A2RUB6
Other Accession	NM_001012506, NP_001012524
Reactivity	Human, Dog, Horse, Bovine
Predicted	Human, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	109411

Additional Information

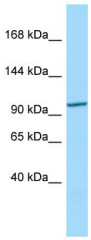
Gene ID	285331
Other Names	Coiled-coil domain-containing protein 66, CCDC66
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-CCDC66 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	CCDC66 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CCDC66 (HGNC:27709)
Function	Microtubule-binding protein required for ciliogenesis (PubMed: 28235840). May function in ciliogenesis by mediating the transport of proteins like BBS4 to the cilium, but also through the organization of the centriolar satellites (PubMed:28235840). Required for the assembly of signaling-competent cilia with proper structure and length (PubMed:36606424). Mediates this function in part by regulating transition zone assembly and basal body recruitment of the IFT-B complex (PubMed:36606424). Cooperates with the ciliopathy proteins CSPP1 and CEP104 during cilium length regulation (PubMed:36606424). Essential for cilium elongation, maintaining ciliary length and stability, and inhibiting disassembly (likely by stabilizing the axoneme) (By similarity). Also plays a role in ciliary Hedgehog pathway activation (By similarity). Plays two important roles during cell division (PubMed:35849559).

	First, is required for mitotic progression via regulation of spindle assembly, organization and orientation, levels of spindle microtubules (MTs), kinetochore-fiber integrity, and chromosome alignment (PubMed:35849559). Second, functions during cytokinesis in part by regulating assembly and organization of central spindle and midbody MTs (PubMed:35849559). Plays a role in retina morphogenesis and/or homeostasis (By similarity).
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite. Cell projection, cilium. Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton, cilium axoneme. Photoreceptor inner segment. Cell projection, cilium, photoreceptor outer segment. Cytoplasm, cytoskeleton, spindle. Midbody. Note=Restricted to the centrosomes and the spindle microtubules during mitosis (PubMed:28235840). Enriched in the inner segment of the photoreceptor (PubMed:19777273)
Tissue Location	Widely expressed (at protein level) (PubMed:28235840). Expressed in retina, mainly in photoreceptors but also in outer plexiform and ganglion cell layers (at protein level) (PubMed:19777273).

Images



Host: Rabbit
Target Name: CCDC66
Sample Tissue: 293T Whole cell lysate
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Antibody Dilution: 1.0µg/ml

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.