

**CCDC66 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17683b**

### Specification

#### CCDC66 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	<a href="#">A2RUB6</a>
Other Accession	<a href="#">NP_001135419.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	109411
Antigen Region	690-719

#### CCDC66 Antibody (C-term) - Additional Information

##### Gene ID 285331

##### Other Names

Coiled-coil domain-containing protein 66, CCDC66

##### Target/Specificity

This CCDC66 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 690-719 amino acids from the C-terminal region of human CCDC66.

##### Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

##### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

##### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

##### Precautions

CCDC66 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### CCDC66 Antibody (C-term) - 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](#)). 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

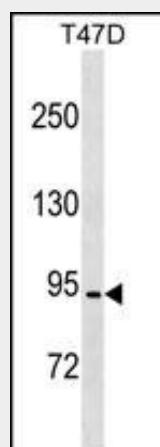
Widely expressed (at protein level) (PubMed:28235840). Expressed in retina, mainly in photoreceptors but also in outer plexiform and ganglion cell layers (at protein level) (PubMed:19777273).

#### CCDC66 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### CCDC66 Antibody (C-term) - Images



CCDC66 Antibody (C-term) (Cat. #AP17683b) western blot analysis in T47D cell line lysates (35ug/lane). This demonstrates the CCDC66 antibody detected the CCDC66 protein (arrow).

### **CCDC66 Antibody (C-term) - Background**

The function of this protein is unknown.

### **CCDC66 Antibody (C-term) - References**

Rose, J. Phd, et al. Mol. Med. (2010) In press :

Kiel, D.P., et al. BMC Med. Genet. 8 SUPPL 1, S14 (2007) :

Toulza, E., et al. Genome Biol. 8 (6), R107 (2007) :