10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CCDC11 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58741

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q96M91
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61835
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CCDC11
Epitope Specificity	331-430/514
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	CCDC11 is a 514 amino acid protein encode by a gene that maps to human chromosome 18q21.1. Encoding over 300 genes, chromosome 18 contains about 76 million bases. Trisomy 18, or Edwards syndrome, is the second most common trisomy after Downs syndrome. Symptoms of Edwards syndrome include low birth weight, a variety of physical development defects, heart deformations and breathing difficulty. Translocation between chromosome 18 and 14 is the most common translocation in cancers, and occurs in follicular lymphomas. Niemann-Pick disease, hereditary hemorrhagic telangiectasia and erythropoietic protoporphyria are associated with chromosome 18. The TGFʃ modulators, Smad2, Smad4 and Smad7 are encoded by chromosome 18.

Additional Information

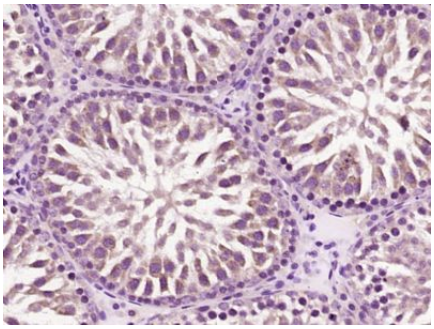
Gene ID	220136
Other Names	Cilia- and flagella-associated protein 53 {ECO:0000312|HGNC:HGNC:26530}, Coiled-coil domain-containing protein 11 {ECO:0000312|HGNC:HGNC:26530}, CFAP53 (HGNC:26530)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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

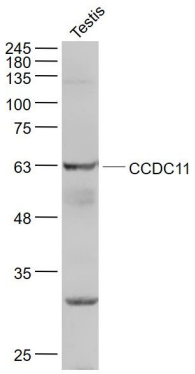
Name	CFAP53 (HGNC:26530)
Function	Microtubule inner protein (MIP) part of the dynein-decorated doublet microtubules (DMTs) in cilia axoneme, which is required for motile cilia beating (PubMed:36191189). Regulates motility patterns of both 9+0 and 9+2 motile cilia through differential localization and recruitment of axonemal dynein components (By similarity). Required for centriolar satellite integrity and non-motile cilium assembly (PubMed:26538025). Required for motile cilium formation (PubMed:26538025). Through its role in the beating of primary cilia, involved in the establishment of organ laterality during embryogenesis (PubMed:26531781). Required for sperm flagellum biogenesis and is essential for male fertility (By similarity).
Cellular Location	Cytoplasm, cytoskeleton, cilium axoneme. Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250|UniProtKB:Q9D439} Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite. Cytoplasm, cytoskeleton, spindle pole. Cytoplasm, cytoskeleton. Cell projection, cilium. Note=In tracheal cell cilia, localizes prominently to both centriolar satellites and axonemes (By similarity) Tightly associated with microtubules in tracheal cilia (By similarity) In embryonic node cells, localizes to the base of the node cilia at the centriolar satellites and, to a lesser extent, to the cilium axoneme (By similarity). Localizes to centriolar satellites through G1, S phase, G2 and mitosis (PubMed:26538025). Enriched on the spindle poles in mitosis (PubMed:26538025). Relocalizes from the centriolar satellite to the ciliary transition zone upon ciliogenesis (PubMed:26538025). In skin fibroblast cells, locates predominantly to the centriole with much lower levels associated with the actin cytoskeleton (PubMed:28621423) Localizes to the sperm flagellum and manchette (By similarity) {ECO:0000250|UniProtKB:Q9D439, ECO:0000269|PubMed:26538025, ECO:0000269|PubMed:28621423}
Tissue Location	Expressed in skin fibroblasts (at protein level) (PubMed:22577226, PubMed:28621423). Expressed in nasal respiratory epithelial cells (at protein level) (PubMed:25504577). Expressed in airway epithelial cells (PubMed:36191189)

Images

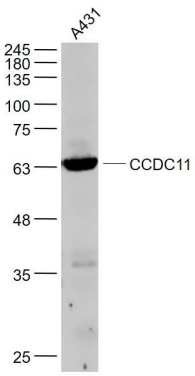


Paraformaldehyde-fixed, paraffin embedded (Rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CCDC11) Polyclonal Antibody, Unconjugated (AP58741) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Sample:
Testis (Mouse) Lysate at 40 ug



Primary: Anti- CCDC11 (AP58741) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 57 kD
Observed band size: 63 kD



Sample:
A431(Human) Cell Lysate at 30 ug
Primary: Anti- CCDC11 (AP58741) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 57 kD
Observed band size: 63 kD