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WDR51B Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11016b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8TC44
Other Accession	NP_758440.1
Reactivity	Human
Predicted	Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27176
Calculated MW	53668
Antigen Region	321-350

Additional Information

Gene ID	282809
Other Names	POC1 centriolar protein homolog B, Pix1, Proteome of centriole protein 1B, WD repeat-containing protein 51B, POC1B, WDR51B
Target/Specificity	This WDR51B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 321-350 amino acids from the C-terminal region of human WDR51B.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	WDR51B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	POC1B (HGNC:30836)
Synonyms	WDR51B

Function	Plays an important role in centriole assembly and/or stability and ciliogenesis (PubMed:20008567, PubMed:32060285). Involved in early steps of centriole duplication, as well as in the later steps of centriole length control (PubMed:19109428). Acts in concert with POC1A to ensure centriole integrity and proper mitotic spindle formation (PubMed:32060285). Required for primary cilia formation, ciliary length and also cell proliferation (PubMed:23015594). Required for retinal integrity (PubMed:25044745). Acts as a positive regulator of centriole elongation (PubMed:37934472).
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Cytoplasm, cytoskeleton, cilium basal body Cytoplasm, cytoskeleton, spindle pole. Note=Component of both mother and daughter centrioles (PubMed:32060285). Localizes to the basal body and centriole adjacent to the connecting cilium of photoreceptors and in synapses of the outer plexiform layer. Localizes to the inner scaffold in the central region of centrioles {ECO:0000250|UniProtKB:Q8BHD1, ECO:0000269|PubMed:32060285, ECO:0000269|PubMed:37934472}
Tissue Location	Expressed in the retina.

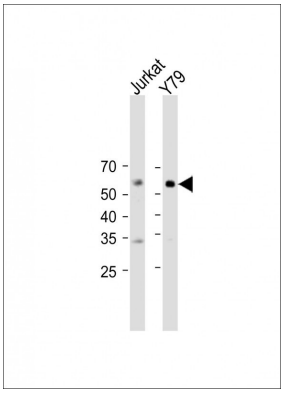
Background

Required for ciliogenesis.

References

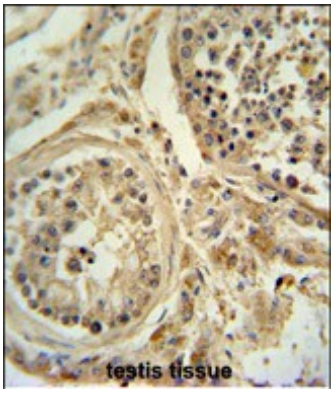
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Pearson, C.G., et al. J. Cell Biol. 187(6):905-920(2009) Keller, L.C., et al. Mol. Biol. Cell 20(4):1150-1166(2009) Hames, R.S., et al. Exp. Cell Res. 314(3):574-589(2008) Lamesch, P., et al. Genomics 89(3):307-315(2007)

Images



All lanes: Anti-WDR51B Antibody (C-term) at 1:1000 dilution Lane 1: Jurkat whole cell lysate Lane 2: Y79 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 54 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

WDR51B antibody (C-term) (Cat. #AP11016b) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the WDR51B antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



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