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

WDR51B Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11016b

Specification

WDR51B Antibody (C-term) - Product Information

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

WDR51B Antibody (C-term) - 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~~1:50~100
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
WDR51B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

WDR51B Antibody (C-term) - 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}

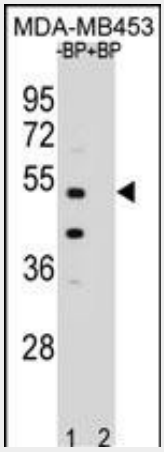
Tissue Location
Expressed in the retina.

WDR51B 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 Cytomety
- Cell Culture

WDR51B Antibody (C-term) - Images



Western blot analysis of WDR51B Antibody (C-term) Pab (Cat. #AP11016b) pre-incubated without(lane 1) and with(lane 2) blocking peptide in MDA-MB453 cell line lysate. WDR51B Antibody (C-term) (arrow) was detected using the purified Pab.

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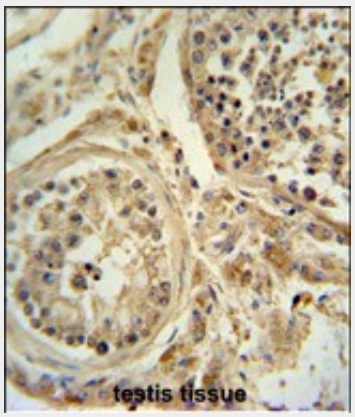

WDR51B antibody (C-term) (Cat. #AP11016b) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the WDR51B antibody (C-term) for immunohistochemistry. Clinical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

WDR51B Antibody (C-term) - Background

Required for ciliogenesis.

WDR51B Antibody (C-term) - 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)