

WDR51B Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP21756b

Specification

WDR51B Blocking Peptide (C-term) - Product Information

Primary Accession

[Q8TC44](#)**WDR51B Blocking Peptide (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

The synthetic peptide sequence is selected from aa 406-417 of HUMAN POC1B

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

WDR51B Blocking Peptide (C-term) - Protein InformationName 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 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

WDR51B Blocking Peptide (C-term) - Images**WDR51B Blocking Peptide (C-term) - Background**

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WDR51B Blocking Peptide (C-term) - References

Ota T., et al. Nat. Genet. 36:40-45(2004).
Scherer S.E., et al. Nature 440:346-351(2006).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Hames R.S., et al. Exp. Cell Res. 314:574-589(2008).
Dephoure N., et al. Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).