

HOOK1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13130c**Specification**

HOOK1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O9UJC3
Other Accession	O8BIL5 , NP_056972.1
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	84648
Antigen Region	402-431

HOOK1 Antibody (Center) - Additional Information**Gene ID** 51361**Other Names**

Protein Hook homolog 1, h-hook1, hHK1, HOOK1

Target/Specificity

This HOOK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 402-431 amino acids from the Central region of human HOOK1.

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

HOOK1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

HOOK1 Antibody (Center) - Protein Information**Name** HOOK1 ([HGNC:19884](#))

Function Component of the FTS/Hook/FHIP complex (FHF complex) (PubMed:[18799622](#), PubMed:[32073997](#)). The FHF complex may function to promote vesicle trafficking and/or fusion via the homotypic vesicular protein sorting complex (the HOPS complex) (PubMed:[18799622](#)). FHF complex promotes the distribution of AP-4 complex to the perinuclear area of the cell (PubMed:[32073997](#)). Required for spermatid differentiation. Probably involved in the positioning of the microtubules of the manchette and the flagellum in relation to the membrane skeleton (By similarity).

Cellular Location

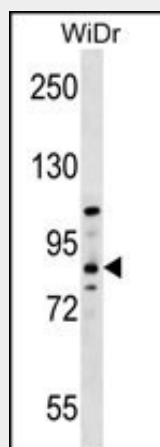
Cytoplasm. Cytoplasm, cytoskeleton. Note=Localizes to punctate cytoplasmic foci which do not appear to overlap with early or late endosomes, the endoplasmic reticulum, multivesicular bodies (MVBs), lysosomes, or mitochondria (By similarity). Often found in close association with microtubules (By similarity). Does not associate with the Golgi complex. During spermiogenesis, it localizes to the manchette in spermatids from steps 8-10. It is also present between the microtubule manchette and the nucleus. During manchette elongation, it is preferentially localized to the nuclear ring of the manchette, whereas the strong localization to the manchette decreases. In more mature spermatids, while the manchette migrates posteriorly, it localizes to punctuate spots. At later stages of spermatid differentiation, the punctuate expression pattern is found at both the attachment site and the proximal end of the elongated manchette. In contrast, it is not present in mature spermatozoa (By similarity) {ECO:0000250|UniProtKB:Q8BIL5}

HOOK1 Antibody (Center) - 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](#)

HOOK1 Antibody (Center) - Images



HOOK1 Antibody (Center) (Cat. #AP13130c) western blot analysis in WiDr cell line lysates (35ug/lane). This demonstrates the HOOK1 antibody detected the HOOK1 protein (arrow).

HOOK1 Antibody (Center) - Background

This gene encodes a member of the hook family of coiled-coil proteins, which bind to microtubules and organelles through their N- and C-terminal domains, respectively. The encoded protein localizes to discrete punctuate subcellular structures, and interacts with several members of the Rab GTPase family involved in endocytosis. It is thought to link endocytic membrane trafficking to the microtubule cytoskeleton. Several alternatively spliced transcript variants have been identified, but the full-length nature of some of these variants has not been determined. [provided by RefSeq].

HOOK1 Antibody (Center) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Xu, L., et al. Mol. Biol. Cell 19(12):5059-5071(2008)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Beausoleil, S.A., et al. Nat. Biotechnol. 24(10):1285-1292(2006)
Simpson, F., et al. Traffic 6(6):442-458(2005)