

HOOK1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP13130c**Specification**

HOOK1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O9UJC3](#)**HOOK1 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 51361

Other Names

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13130c was selected from the Center region of HOOK1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

HOOK1 Antibody (Center) Blocking Peptide - Protein InformationName 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

HOOK1 Antibody (Center) Blocking Peptide - Images

HOOK1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)