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CEP78 Blocking Peptide (N-term)

Synthetic peptide
Catalog # BP5395a

Specification

CEP78 Blocking Peptide (N-term) - Product Information

Primary Accession	Q5JTW2
Other Accession	NP_001092272.1, NP_115547.1

CEP78 Blocking Peptide (N-term) - Additional Information

Gene ID 84131

Other Names
Centrosomal protein of 78 kDa, Cep78, CEP78, C9orf81

Target/Specificity
The synthetic peptide sequence is selected from aa 39-52 of HUMAN CEP78

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.

CEP78 Blocking Peptide (N-term) - Protein Information

Name CEP78 {ECO:0000303|PubMed:27588451, ECO:0000312|HGNC:HGNC:25740}

Function
Centriole wall protein that localizes to mature centrioles and regulates centriole and cilia biogenesis (PubMed:27246242, PubMed:27588451, PubMed:28242748, PubMed:34259627). Involved in centrosome duplication: required for efficient PLK4 centrosomal localization and PLK4-induced overduplication of centrioles (PubMed:27246242). Involved in cilium biogenesis and controls cilium length (PubMed:27588451). Acts as a regulator of protein stability by preventing ubiquitination of centrosomal proteins, such as CCP110 and tektins (PubMed:28242748, PubMed:34259627). Associates with the EDVP complex, preventing ubiquitination

and degradation of CCP110 (PubMed:28242748, PubMed:34259627). Promotes deubiquitination of tektin proteins (TEKT1, TEKT2, TEK3, TEKT4 and TEKT5) via its interaction with USP16 (By similarity).

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Cytoplasm, cytoskeleton, cilium basal body Note=Mainly localizes at the centriolar wall, but also found in the pericentriolar material (PubMed:27246242). Expressed in photoreceptor inner segment (PubMed:27588452).

Tissue Location

Widely expressed (PubMed:27588451, PubMed:27588452). Expressed in different retinal cell types with higher expression in cone compared to rod cells (at protein level) (PubMed:27588452).

CEP78 Blocking Peptide (N-term) - Protocols

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

- Blocking Peptides

CEP78 Blocking Peptide (N-term) - Images

CEP78 Blocking Peptide (N-term) - References

Petretti, C., et al. EMBO Rep. 7(4):418-424(2006)
Andersen, J.S., et al. Nature 426(6966):570-574(2003)
Casenghi, M., et al. Dev. Cell 5(1):113-125(2003)
Takahashi, M., et al. Mol. Biol. Cell 13(9):3235-3245(2002)
Mayor, T., et al. J. Cell Biol. 151(4):837-846(2000)
Golsteyn, R.M., et al. J. Cell Biol. 129(6):1617-1628(1995)