

ZFYVE20 Blocking Peptide (N-Term)

Synthetic peptide

Catalog # BP21374a

Specification

ZFYVE20 Blocking Peptide (N-Term) - Product Information

Primary Accession

[Q9H1K0](#)**ZFYVE20 Blocking Peptide (N-Term) - Additional Information**

Gene ID 64145

Other Names

Rabenosyn-5, 110 kDa protein, FYVE finger-containing Rab5 effector protein rabenosyn-5, RAB effector RBSN {ECO:0000312|HGNC:HGNC:20759}, Zinc finger FYVE domain-containing protein 20, RBSN (HGNC:20759)

Target/Specificity

The synthetic peptide sequence is selected from aa 41-55 of HUMAN RBSN (HGNC:20759)

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.

ZFYVE20 Blocking Peptide (N-Term) - Protein InformationName RBSN ([HGNC:20759](#))**Function**

Rab4/Rab5 effector protein acting in early endocytic membrane fusion and membrane trafficking of recycling endosomes. Required for endosome fusion either homotypically or with clathrin coated vesicles. Plays a role in the lysosomal trafficking of CTSD/cathepsin D from the Golgi to lysosomes. Also promotes the recycling of transferrin directly from early endosomes to the plasma membrane. Binds phospholipid vesicles containing phosphatidylinositol 3-phosphate (PtdInsP3) (PubMed:11062261, PubMed:11788822, PubMed:15020713). Plays a role in the recycling of transferrin receptor to the plasma membrane (PubMed:22308388).

Cellular Location

Cell membrane; Lipid-anchor; Cytoplasmic side. Early endosome membrane; Lipid-anchor.

Note=Enriched in endosomes that are in close proximity to clathrin-enriched regions at the cell surface.

ZFYVE20 Blocking Peptide (N-Term) - Protocols

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

- [Blocking Peptides](#)

ZFYVE20 Blocking Peptide (N-Term) - Images**ZFYVE20 Blocking Peptide (N-Term) - Background**

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ZFYVE20 Blocking Peptide (N-Term) - References

Nielsen E.,et al.J. Cell Biol. 151:601-612(2000).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Muzny D.M.,et al.Nature 440:1194-1198(2006).

Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.

de Renzis S.,et al.Nat. Cell Biol. 4:124-133(2002).