

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

Synthetic peptide

Catalog # BP21374a

**Specification**

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**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 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=20759" target="\_blank">HGNC:20759</a>)

**Target/Specificity**

The synthetic peptide sequence is selected from aa 41-55 of HUMAN RBSN (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=20759" target="\_blank">HGNC:20759</a>)

**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 Information**Name 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:<a href="http://www.uniprot.org/citations/11062261" target="\_blank">11062261</a>, PubMed:<a href="http://www.uniprot.org/citations/11788822" target="\_blank">11788822</a>, PubMed:<a href="http://www.uniprot.org/citations/15020713" target="\_blank">15020713</a>). Plays a role in the recycling of transferrin receptor to the plasma membrane (PubMed:<a href="http://www.uniprot.org/citations/22308388" target="\_blank">22308388</a>).

**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**

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).

**ZFYVE20 Blocking Peptide (N-Term) - References**

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Muzny D.M.,et al.Nature 440:1194-1198(2006).  
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de Renzis S.,et al.Nat. Cell Biol. 4:124-133(2002).