

**ZNRF2 Blocking Peptide (N-term)**  
**Synthetic peptide**  
**Catalog # BP20753a****Specification**

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**ZNRF2 Blocking Peptide (N-term) - Product Information**Primary Accession [Q8NHG8](#)**ZNRF2 Blocking Peptide (N-term) - Additional Information****Gene ID** 223082**Other Names**

E3 ubiquitin-protein ligase ZNRF2, 632-, Protein Ells2, RING finger protein 202, Zinc/RING finger protein 2, ZNRF2, RNF202

**Target/Specificity**

The synthetic peptide sequence is selected from aa 2-16 of HUMAN ZNRF2

**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.

**ZNRF2 Blocking Peptide (N-term) - Protein Information****Name** ZNRF2**Synonyms** RNF202**Function**

E3 ubiquitin-protein ligase that plays a role in the establishment and maintenance of neuronal transmission and plasticity. Ubiquitinates the Na(+)/K(+) ATPase alpha-1 subunit/ATP1A1 and thereby influences its endocytosis and/or degradation (PubMed:<a href="http://www.uniprot.org/citations/22797923" target="\_blank">22797923</a>). Acts also as a positive regulator of mTORC1 activation by amino acids, which functions upstream of the V-ATPase and of Rag-GTPases (PubMed:<a href="http://www.uniprot.org/citations/27244671" target="\_blank">27244671</a>). In turn, phosphorylation by mTOR leads to its inhibition via targeting to the cytosol allowing a self-regulating feedback mechanism (PubMed:<a href="http://www.uniprot.org/citations/27244671" target="\_blank">27244671</a>).

**Cellular Location**

Endosome membrane; Peripheral membrane protein. Lysosome membrane; Peripheral membrane

protein. Presynaptic cell membrane; Peripheral membrane protein. Cytoplasm

**Tissue Location**

Highly expressed in the brain, with higher expression during development than in adult. Expressed also in mammary glands, testis, colon and kidney.

**ZNRF2 Blocking Peptide (N-term) - Protocols**

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

- [Blocking Peptides](#)

**ZNRF2 Blocking Peptide (N-term) - Images****ZNRF2 Blocking Peptide (N-term) - Background**

May play a role in the establishment and maintenance of neuronal transmission and plasticity via its ubiquitin ligase activity. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfer the ubiquitin to targeted substrates.

**ZNRF2 Blocking Peptide (N-term) - References**

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Olsen J.V.,et al.Cell 127:635-648(2006).  
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