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ZNRF2 Blocking Peptide (N-term)

Synthetic peptide
Catalog # BP20753a

Specification

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:22797923). Acts also as a positive regulator of mTORC1 activation by amino acids, which functions upstream of the V-ATPase and of Rag-GTPases (PubMed:27244671). In turn, phosphorylation by mTOR leads to its inhibition via targeting to the cytosol allowing a self-regulating feedback mechanism (PubMed:27244671).

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

Araki T.,et al.J. Neurosci. 23:9385-9394(2003).
Guo J.H.,et al.Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
Olsen J.V.,et al.Cell 127:635-648(2006).
Plans V.,et al.J. Cell. Biochem. 97:572-582(2006).
Cantin G.T.,et al.J. Proteome Res. 7:1346-1351(2008).