

**MAGI2 Blocking Peptide (C-term)**

Synthetic peptide

Catalog # BP21243b

**Specification**

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**MAGI2 Blocking Peptide (C-term) - Product Information**

Primary Accession

[Q86UL8](#)**MAGI2 Blocking Peptide (C-term) - Additional Information**

Gene ID 9863

**Other Names**

Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 2, Atrophin-1-interacting protein 1, AIP-1, Atrophin-1-interacting protein A, Membrane-associated guanylate kinase inverted 2, MAGI-2, MAGI2, ACVRINP1, AIP1, KIAA0705

**Target/Specificity**

The synthetic peptide sequence is selected from aa 1123-1136 of HUMAN MAGI2

**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.

**MAGI2 Blocking Peptide (C-term) - Protein Information**

Name MAGI2

Synonyms ACVRINP1, AIP1, KIAA0705

**Function**

Seems to act as a scaffold molecule at synaptic junctions by assembling neurotransmitter receptors and cell adhesion proteins (By similarity). Plays a role in nerve growth factor (NGF)-induced recruitment of RAPGEF2 to late endosomes and neurite outgrowth (By similarity). May play a role in regulating activin-mediated signaling in neuronal cells (By similarity). Enhances the ability of PTEN to suppress AKT1 activation (PubMed:<a href="http://www.uniprot.org/citations/10760291" target="\_blank">10760291</a>). Plays a role in receptor-mediated clathrin-dependent endocytosis which is required for ciliogenesis (By similarity).

**Cellular Location**

Cytoplasm. Late endosome. Synapse, synaptosome. Cell membrane; Peripheral membrane

protein. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000250|UniProtKB:Q9WVQ1}. Cell projection, cilium {ECO:0000250|UniProtKB:Q9WVQ1}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole {ECO:0000250|UniProtKB:Q9WVQ1}. Photoreceptor inner segment {ECO:0000250|UniProtKB:Q9WVQ1}. Cell projection, cilium, photoreceptor outer segment {ECO:0000250|UniProtKB:Q9WVQ1}. Note=Localized diffusely in the cytoplasm before nerve growth factor (NGF) stimulation Recruited to late endosomes after NGF stimulation. Membrane-associated in synaptosomes (By similarity).

**Tissue Location**

Specifically expressed in brain.

**MAGI2 Blocking Peptide (C-term) - Protocols**

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

- [Blocking Peptides](#)

**MAGI2 Blocking Peptide (C-term) - Images****MAGI2 Blocking Peptide (C-term) - Background**

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**MAGI2 Blocking Peptide (C-term) - References**

Wood J.D.,et al.Mol. Cell. Neurosci. 11:149-160(1998).  
Ishikawa K.,et al.DNA Res. 5:169-176(1998).  
Hillier L.W.,et al.Nature 424:157-164(2003).  
Scherer S.W.,et al.Science 300:767-772(2003).  
Wu X.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:4233-4238(2000).