

**MAGT1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP5056a****Specification**

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**MAGT1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9H0U3](#)**MAGT1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 84061**Other Names**

Magnesium transporter protein 1, MagT1, Implantation-associated protein, IAP, MAGT1, IAG2

**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.

**MAGT1 Antibody (N-term) Blocking Peptide - Protein Information****Name** MAGT1 ([HGNC:28880](#))**Synonyms** IAG2**Function**

Accessory component of the STT3B-containing form of the N- oligosaccharyl transferase (OST) complex which catalyzes the transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains (PubMed:<a href="http://www.uniprot.org/citations/31831667" target="\_blank">31831667</a>). Involved in N- glycosylation of STT3B-dependent substrates (PubMed:<a href="http://www.uniprot.org/citations/31831667" target="\_blank">31831667</a>). Specifically required for the glycosylation of a subset of acceptor sites that are near cysteine residues; in this function seems to act redundantly with TUSC3. In its oxidized form proposed to form transient mixed disulfides with a glycoprotein substrate to facilitate access of STT3B to the unmodified acceptor site. Has also oxidoreductase- independent functions in the STT3B-containing OST complex possibly involving substrate recognition.

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum. Endoplasmic reticulum membrane; Multi-pass membrane protein

**Tissue Location**

Ubiquitous. Expressed at very low levels in brain, lung and kidney.

**MAGT1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**MAGT1 Antibody (N-term) Blocking Peptide - Images****MAGT1 Antibody (N-term) Blocking Peptide - Background**

MAGT1 encodes a magnesium cation transporter protein that localizes to the cell membrane. This protein also associates with N-oligosaccharyl transferase and therefore may have a role in N-glycosylation. Mutations in this gene cause mental retardation X-linked type 95 (MRX95). This gene may have multiple in-frame translation initiation sites, one of which would encode a shorter protein with an N-terminus containing a signal peptide at amino acids 1-29.

**MAGT1 Antibody (N-term) Blocking Peptide - References**

Zhou, H., et al. Proc. Natl. Acad. Sci. U.S.A. 106(37):15750-15755(2009)Molinari, F., et al. Am. J. Hum. Genet. 82(5):1150-1157(2008)Shibatani, T., et al. Biochemistry 44(16):5982-5992(2005)