

MAGT1 Rabbit pAb

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Catalog # AP57190

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H0U3
Reactivity	Rat, Mouse
Predicted	Pig, Dog, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38037
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MAGT1
Epitope Specificity	101-200/335
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane.
DISEASE	Immunodeficiency, X-linked, with magnesium defect, Epstein-Barr virus infection and neoplasia (XMEN) [MIM:300853]: A disease characterized by CD4 lymphopenia, severe chronic viral infections, and defective T-lymphocyte activation. Note: The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene 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. [provided by RefSeq, Jan 2010]

Additional Information

Gene ID	84061
Other Names	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit MAGT1, Oligosaccharyl transferase subunit MAGT1, Implantation-associated protein, IAP, Magnesium transporter protein 1, MagT1, MAGT1 (HGNC:28880), IAG2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

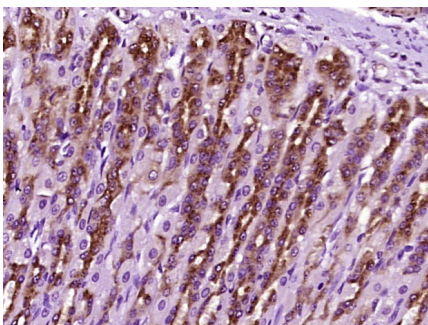
Protein Information

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: 31831667). Involved in N- glycosylation of STT3B-dependent substrates (PubMed: 31831667). 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. Also has oxidoreductase- independent functions in the STT3B-containing OST complex possibly involving substrate recognition. Could indirectly play a role in Mg(2+) transport in epithelial cells (Probable).
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.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MAGT1) Polyclonal Antibody, Unconjugated (AP57190) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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