

MAGI1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP54467

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q96QZ7
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	164581
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MAGI1
Epitope Specificity	161-260/1491
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 junction; cell membrane; tight junction; peripheral membrane protein. Localizes to epithelial cells tight junctions.
SIMILARITY	Contains 1 guanylate kinase-like domain. Contains 6 PDZ (DHR) domains. Contains 2 WW domains.
SUBUNIT	Interacts through its WW 2 domain with SYNPO and through its PDZ 5 domain with ACTN4. Interacts with cytoplasmic domain of BAI1. Interacts via its WW domains with DRPLA. Interacts with ESAM, LRP2 and CXADR. May interact with CTNNB1. Interacts through its PDZ 1 domain with NET1 (By similarity). Interacts with ASIC3 and AMOT. Interacts with FCHSD2. Interacts with IGSF5/JAM4 and through its PDZ 2 and 3 domains with NPHS1 forming a tripartite complex (By similarity). Interacts with DDN.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The membrane-associated guanylate kinase (MAGUK) proteins are concentrated at the membrane-cytoskeletal interface where they facilitate the assembly of multiprotein complexes on the inner surface of the plasma membrane. Three protein-protein interaction modules characteristically define MAGUK related proteins: the PDZ domain, the SH3 domain and the guanylate kinase (GuK) domain. The closely related MAGUK proteins, MAGI-1, MAGI-2 and MAGI-3 (membrane associated guanylate kinase inverted-1 and 2), likewise contain the GuK domain and five PDZ domains; however, the SH3 domain is replaced with a WW domain. The transcripts of MAGI-1 are alternatively spliced to produce three distinct proteins having unique C-terminals. Two variants, MAGI-1a and MAGI-1b, are associated with the membrane and cytosolic fractions and are primarily expressed in the brain. The third isoform, MAGI-1c, encodes for a nuclear localization signal that localizes MAGI-1c to the nucleus, and it is primarily expressed in the liver and kidney. MAGI-2 and MAGI-3 are localized to the plasma membrane, and they contribute to protein scaffolding by associating with the protein phosphatase PTEN.

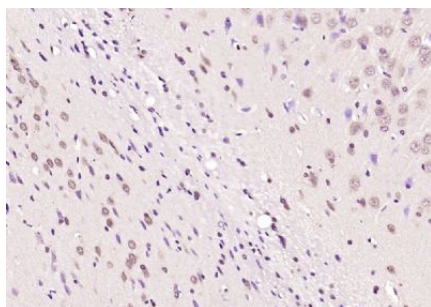
Additional Information

Gene ID	9223
Other Names	Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 1, Atrophin-1-interacting protein 3, AIP-3, BAI1-associated protein 1, BAP-1, Membrane-associated guanylate kinase inverted 1, MAGI-1, Trinucleotide repeat-containing gene 19 protein, WW domain-containing protein 3, WWP3, MAGI1, AIP3, BAIAP1, BAP1, TNRC19
Target/Specificity	Widely expressed with the exception of skeletal muscle. Isoform 1, isoform 2 and isoform 6 are highly expressed in colon, kidney, lung, liver, and pancreas. Isoform 5 is predominantly expressed in brain and heart. Isoform 3 and isoform 4 are highly expressed in pancreas and brain.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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	MAGI1
Synonyms	AIP3, BAIAP1, BAP1, TNRC19
Function	Plays a role in coupling actin fibers to cell junctions in endothelial cells, via its interaction with AMOTL2 and CDH5 (By similarity). May regulate acid-induced ASIC3 currents by modulating its expression at the cell surface (By similarity).
Cellular Location	Cell junction, tight junction. Cell membrane; Peripheral membrane protein. Note=Localizes to epithelial cells tight junctions
Tissue Location	Widely expressed with the exception of skeletal muscle. Isoform 1, isoform 2 and isoform 6 are highly expressed in colon, kidney, lung, liver, and pancreas. Isoform 5 is predominantly expressed in brain and heart. Isoform 3 and isoform 4 are highly expressed in pancreas and brain.

Images



Paraformaldehyde-fixed, paraffin embedded (rat brain); 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 (MAGI1) Polyclonal Antibody, Unconjugated (AP54467) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.