

Rabbit MAGI2 Polyclonal Antibody | anti-MAGI2 antibody

MAGI2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321059	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

MAGI2; Polyclonal Antibody; MAGI2 Antibody; Activin receptor interacting protein 1; Acvri1; Acvrinp1; ACVRIP1; AIP 1; Aip-1; ARIP1; Atrophin 1 interacting protein 1; Atrophin 1 interacting protein A; Atrophin-1-interacting protein 1; Atrophin-1-interacting protein A; KIAA0705; MAGI-2; MAGI2_HUMAN; Membrane associated guanylate kinase 2; Membrane associated guanylate kinase inverted 2; Membrane associated guanylate kinase WW and PDZ domain containing 2; Membrane associated guanylate kinase WW and PDZ domain containing protein 2; Membrane-associated guanylate kinase; Membrane-associated guanylate kinase inverted 2; S SCAM; SSCAM; WW and PDZ domain-containing protein 2; anti-MAGI2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	MAGI2 antibody detects endogenous levels of MAGI2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1441
Applicable Applications for anti-MAGI2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MAGI2
Subcellular Location	Cell Junction > Synapse > Synaptosome. Cell Membrane. Membrane-associated in synaptosomes.
Tissue Specificity	Specifically expressed in brain.
Predicted Cross Reactivity	Pig, Horse, Rabbit, Dog
Similarity	Pig (100%), Horse (91%), Rabbit (91%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321059 staining A549 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis on A549 cell lysate using MAGI2 Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MAGI2 antibody	Description: The protein encoded by this gene interacts with atrophin-1. Atrophin-1 contains a polyglutamine repeat, expansion of which is responsible for dentatorubral and pallidolusian atrophy. This encoded protein is characterized by two WW domains, a guanylate kinase-like domain, and multiple PDZ domains. It has structural similarity to the membrane-associated guanylate kinase homologue (MAGUK) family. Function: Seems to act as scaffold molecule at synaptic junctions by assembling neurotransmitter receptors and cell adhesion proteins. May play a role in regulating activin-mediated signaling in neuronal cells. Enhances the ability of PTEN to suppress AKT1 activation. Plays a role in nerve growth factor (NGF)-induced recruitment of RAPGEF2 to late endosomes and neurite outgrowth. Subunit Structure: Interacts (via its WW domains) with DRPLA (PubMed:9647693). Interacts (via its second PDZ domain) with PTEN (via unphosphorylated C-terminus); this interaction diminishes the degradation rate of PTEN (PubMed:10760291, PubMed:11707428). Interacts (via guanylate kinase domain) with DLGAP1 (By similarity). Interacts (via the PDZ domains) with GRIN2A, GRID2 and NLGN1 (By similarity). Interacts with CTNND2, CTNNB1, MAGUIN-1, ACVR2A, SMAD2 and SMAD3 (By similarity). Part of a complex consisting of AIP1, ACVR2A, ACVR1B and SMAD3 (By similarity). May interact with HTR2A (By similarity). Interacts with IGSF9, RAPGEF2 and HTR4 (By similarity). Identified in a complex with ACTN4, CASK, IQGAP1, NPHS1, SPTAN1 and SPTBN1 (By similarity). Found in a complex, at least composed of KIDINS220, MAGI2, NTRK1 and RAPGEF2; the complex is mainly formed at late endosomes in a NGF-dependent manner (By similarity). Interacts with RAPGEF2; the interaction occurs before or after nerve growth factor (NGF) stimulation (By similarity). Interacts (via PDZ domain) with KIDINS220 (via C-terminal domain) (By similarity). Interacts with DDN (PubMed:16464232). Interacts with DLL1 (By similarity). Found in a complex with IGSF9B and NLGN2; the interaction with IGSF9B is mediated via the PDZ 5 and PDZ 6 domains, while the interaction with NLGN2 is mediated via the WW1, WW2 and PDZ2 domains (PubMed:23751499). Similarity: Belongs to the MAGUK family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	667477958
NCBI GeneID	9863
NCBI Accession #	NP_001288057.1
NCBI GenBank Nucleotide #	NM_001301128.1
UniProt Accession #	Q86UL8; O60434; O60510; Q86UI7; Q9NP44; Q9UDQ5; Q9UDU1; A4D1C1; A7E2C3
Molecular Weight	Observed: 159 kDa Predicted: 159 kDa
NCBI Official Full Name	membrane-associated guanylate kinase, WW and PDZ domain-containing protein 2 isoform 2
NCBI Official Synonym Full Names	membrane associated guanylate kinase, WW and PDZ domain containing 2
NCBI Official Symbol	MAGI2
NCBI Official Synonym Symbols	AIP1; AIP-1; ARIP1; SSCAM; MAGI-2; NPHS15; ACVRIP1
NCBI Protein Information	membrane-associated guanylate kinase, WW and PDZ domain-containing protein 2
UniProt Protein Name	Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 2

UniProt Gene Name	MAGI2
UniProt Synonym Gene Names	ACVRINP1; AIP1; KIAA0705; AIP-1; MAGI-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/magi2-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321059>