Human/Mouse MAGI2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF7117

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human MAGI2 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant ARIP-2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human MAGI2 Ser2-Arg130 Accession # Q86UL8
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

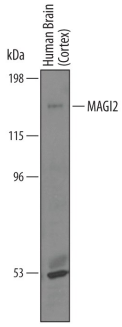
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

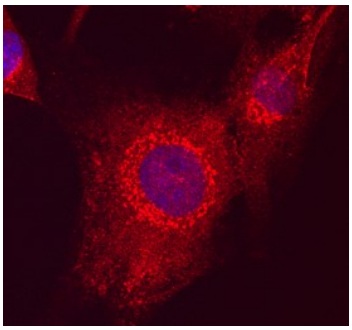
DATA

Western Blot



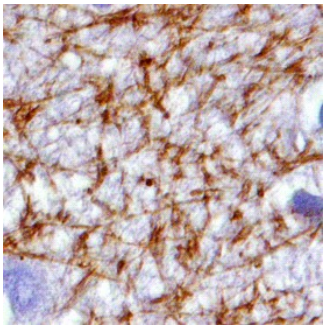
Detection of Human MAGI2 by Western Blot. Western blot shows lysates of human brain (cortex) tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human MAGI2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7117) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for MAGI2 at approximately 170 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



MAGI2 in U-87 MG Human Cell Line. MAGI2 was detected in immersion fixed U-87 MG human glioblastoma/ astrocytoma cell line using Goat Anti-Human MAGI2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7117) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Immunohistochemistry



MAGI2 in Human Brain. MAGI2 was detected in immersion fixed paraffin-embedded sections of human brain (hippocampus) using Goat Anti-Human MAGI2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7117) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to synaptic boutons and neuronal processes. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

MAGI2 (AIP-1, ACVRINP1 also known as Activin receptor-interacting protein 1 and S-SCAM in rodents); is a 160-180 kDa member of the MAGUK family of proteins. It is found in neuronal post-synaptic membrane complexes, and serves as a molecular scaffold for multiple proteins, including α-actinin, dendrin, SMAD3 and β-catenin. ARIP-1 facilitates the signaling of both growth factor and neurotransmitter receptors such as ActRIIA, NMDA and β_1-adrenergic receptors. Human ARIP-1 is 1455 amino acids (aa) in length. It contains an N-terminal PZD domain (aa 17-101), followed by a guanylate kinase-like domain (aa 109-283), two WW domains (aa 302-381) and five subsequent PZD domains (aa 426-1229). ARIP-1 is reported to dimerize/oligomerize. There are three potential isoform variants. All utilize an alternative start site at Met164 that may be accompanied by either an Arg substitution for aa 757-771, or a 48 aa substitution for aa 1236-1455. Over aa 2-130, human and mouse ARIP-1 are identical in aa sequence.