



Rabbit Anti-AIP1 antibody

SL11705R

Product Name:	AIP1
Chinese Name:	激活素受体相互作用蛋白1抗体
Alias:	Activin receptor interacting protein 1; Acvri1; Acvrinp1; ACVRIP1; AIP1; 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; MAGI-2; MAGI2; 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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	159kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human AIP1:301-380/1455
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.

PubMed:

[PubMed](#)

AIP1 (ASK-interacting protein 1), also known as DAB2IP (DAB2 interacting protein), is a 1,189 amino acid protein that localizes to both the membrane and the cytoplasm and contains one Ras-GAP domain, one PH domain and one C2 domain. Expressed at low levels in prostate tissue, AIP1 functions as a Ras GTPase-activating protein that interacts with ASK 1 and, via this interaction, disrupts the association of ASK 1 with an inhibitory 14-3-3 complex, thereby allowing free ASK 1 to function within the cell. AIP1 exists as multiple alternatively spliced isoforms and is down-regulated in prostate cancer tissue, suggesting a role in tumor suppression. Chromosomal aberrations in the gene encoding AIP1 are associated with acute myeloid leukemia (AML), implicating a role for AIP1 fusion proteins in tumorigenesis.

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.

Subunit:

Interacts (via its WW domains) with DRPLA. Interacts (via its second PDZ domain) with PTEN (via unphosphorylated C-terminus); this interaction diminishes the degradation rate of PTEN. 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. May interact with HTR2A. Interacts with IGSF9, RAPGEF2 and HTR4. Identified in a complex with ACTN4, CASK, IQGAP1, NPHS1, SPTAN1 and SPTBN1. Interacts with DDN.

Subcellular Location:

Cell junction, synapse, synaptosome. Cell membrane; Peripheral membrane protein. Note=Membrane-associated in synaptosomes.

Tissue Specificity:

Specifically expressed in brain.

Similarity:

Belongs to the MAGUK family.
Contains 1 guanylate kinase-like domain.
Contains 6 PDZ (DHR) domains.
Contains 2 WW domains.

SWISS:

Q86UL8

Gene ID:

9863

Product Detail:

Database links:

[Entrez Gene: 9863](#) Human

[Omim: 606382](#) Human

[SwissProt: Q86UL8](#) Human

[Unigene: 603842](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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