

Rabbit RASA1 Polyclonal Antibody | anti-RASA1 antibody

RASA1 Antibody

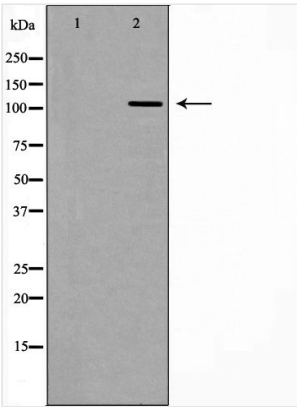
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326286	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RASA1; Polyclonal Antibody; RASA1 Antibody; CM AVM; CMAVM; DKFZp434N071; GAP; GTPase activating protein; GTPase-activating protein; OTTHUMP00000222390; OTTHUMP00000222391; OTTHUMP00000222392; OTTHUMP00000222393; p120GAP; p120RASGAP; PKWS; Ras GTPase-activating protein 1; RAS p21 protein activator (GTPase activating protein) 1; Ras p21 protein activator; RASA; RASA1_HUMAN; RasGAP; Triphosphatase activating protein; anti-RASA1 antibody

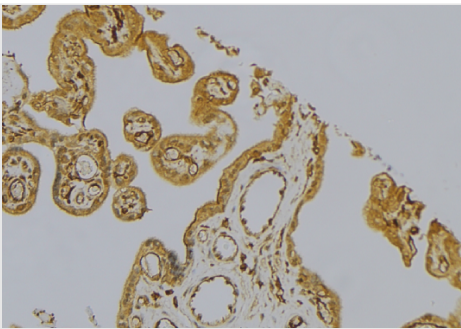
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RASA1 antibody detects endogenous levels of total RASA1
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	1047
Applicable Applications for anti-RASA1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RASA1
Subcellular Location	Cytoplasm.
Tissue Specificity	In placental villi, detected only in the trophoblast layer (cytotrophoblast and syncytiotrophoblast). Not detected in stromal, endothelial or Hofbauer cells (at protein level).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of extracts of mouse testis tissue, using RASA1 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326286 at 1/100 staining Mouse placenta tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-RASA1 antibody

Description: The protein encoded by this gene is located in the cytoplasm and is part of the GAP1 family of GTPase-activating proteins. The gene product stimulates the GTPase activity of normal RAS p21 but not its oncogenic counterpart. Acting as a suppressor of RAS function, the protein enhances the weak intrinsic GTPase activity of RAS proteins resulting in the inactive GDP-bound form of RAS, thereby allowing control of cellular proliferation and differentiation. Mutations leading to changes in the binding sites of either protein are associated with basal cell carcinomas. Mutations also have been associated with hereditary capillary malformations (CM) with or without arteriovenous malformations (AVM) and Parkes Weber syndrome. Alternative splicing results in two isoforms where the shorter isoform, lacking the N-terminal hydrophobic region but retaining the same activity, appears to be abundantly expressed in placental but not adult tissues. [provided by RefSeq, May 2012]

Function: Inhibitory regulator of the Ras-cyclic AMP pathway. Stimulates the GTPase of normal but not oncogenic Ras p21; this stimulation may be further increased in the presence of NCK1.

Subunit Structure: Interacts with SQSTM1. Interacts with SPSB1; the interaction does not promote degradation. Interacts with CAV2 (tyrosine phosphorylated form). Directly interacts with NCK1. Interacts with PDGFRB (tyrosine phosphorylated). Interacts (via SH2 domain) with the 'Tyr-9' phosphorylated form of PDPK1.

Post-translational Modifications: The N-terminus is blocked. Phosphorylated by SRC and LCK. The phosphorylation SRC inhibits its ability to stimulate the Ras-GTPase activity, whereas phosphorylation by LCK does not display any effect on stimulation activity.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506431
NCBI GeneID	5921
NCBI Accession #	NP_002881.1
NCBI GenBank Nucleotide #	NM_002890.2
UniProt Accession #	P20936; Q68CU6; Q9UDI1; B2R6W3; B4DTL2
Molecular Weight	Observed: 116 kDa Predicted: 117 kDa
NCBI Official Full Name	ras GTPase-activating protein 1 isoform 1
NCBI Official Synonym Full Names	RAS p21 protein activator 1
NCBI Official Symbol	RASA1
NCBI Official Synonym Symbols	GAP; PKWS; RASA; p120; CMAVM; CM-AVM; RASGAP; p120GAP; p120RASGAP
NCBI Protein Information	ras GTPase-activating protein 1

UniProt Protein Name	Ras GTPase-activating protein 1
UniProt Gene Name	RASA1
UniProt Synonym Gene Names	GAP; RASA; GAP; GTPase-activating protein; RasGAP

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/rasa1-antibody-immunohistochemistry-western-blot-elisa/326286>