Rabbit RGS2 Polyclonal Antibody | anti-RGS2 antibody

RGS2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326386	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunohistochemistry, Western Blot**

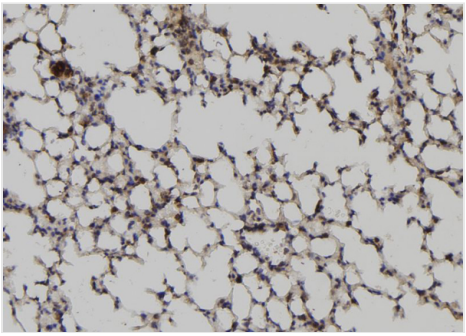
PRODUCT SYNONYMS

RGS2; Polyclonal Antibody; RGS2 Antibody; Basic helix-loop-helix phosphoprotein G0S8; Cell growth inhibiting protein 31; Cell growth-inhibiting gene 31 protein; G0 to G1 switch regulatory 8 24kD; G0/G1 switch regulatory protein 8; G0S8; GOS8; OTTHUMP00000060765; Regulator of G protein signaling 2; Regulator of G protein signalling 2 24kD; Regulator of G-protein signaling 2; Regulators of G protein signaling XRGSVI; RGS 2; RGS2_HUMAN; anti-RGS2 antibody

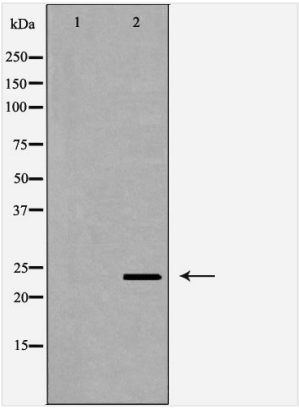
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RGS2 antibody detects endogenous levels of total RGS2
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	211
Applicable Applications for anti-RGS2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RGS2
Subcellular Location	Cell Membrane. Mitochondrion and Cell Membrane. Cytoplasm. Nucleus, Nucleolus.
Tissue Specificity	Expressed in acute myelogenous leukemia (AML) and in acute lymphoblastic leukemia (ALL).
Predicted Cross Reactivity	**Pig, Bovine, Horse, Sheep, Rabbit, Dog**
Similarity	Pig (91%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
AAA326386 at 1/100 staining Mouse lung 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.



WB (Western Blot)
Western blot analysis of extracts of human brain, using RGS2 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RGS2 antibody	Function: Regulates G protein-coupled receptor signaling cascades. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form (PubMed:11063746, PubMed:19478087). It is involved in the negative regulation of the angiotensin-activated signaling pathway (PubMed:28784619). Plays a role in the regulation of blood pressure in response to signaling via G protein-coupled receptors and GNAQ. Plays a role in regulating the constriction and relaxation of vascular smooth muscle (By similarity). Binds EIF2B5 and blocks its activity, thereby inhibiting the translation of mRNA into protein (PubMed:19736320). Subunit Structure: Interacts with GNAQ (PubMed:18434541, PubMed:19478087, PubMed:28784619). Does not interact with GNAI1 and GNAI3 (PubMed:18434541, PubMed:19478087). Interacts with EIF2B5 (PubMed:19736320). Interacts with PRKG1 (isoform alpha) (PubMed:14608379). Post-translational Modifications: Phosphorylated by protein kinase C. Phosphorylation by PRKG1 leads to activation of RGS2 activity.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506517
NCBI GeneID	5997
NCBI Accession #	NP_002914.1
NCBI GenBank Nucleotide #	NM_002923.3
UniProt Accession #	P41220; Q6I9U5
Molecular Weight	Observed: 24 kDa Predicted: 25 kDa
NCBI Official Full Name	regulator of G-protein signaling 2
NCBI Official Synonym Full Names	regulator of G protein signaling 2
NCBI Official Symbol	RGS2
NCBI Official Synonym Symbols	G0S8
NCBI Protein Information	regulator of G-protein signaling 2
UniProt Protein Name	Regulator of G-protein signaling 2
UniProt Gene Name	**RGS2**
UniProt Synonym Gene Names	G0S8; RGS2

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.

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Online datasheet: https://www.aaabiotech.com/polyclonal/rgs2-antibody-immunohistochemistry-western-blot-elisa/326386