

Rabbit RGS19 Polyclonal Antibody | anti-RGS19 antibody

Phospho-RGS19 (Ser151) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329810	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (89%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (89%), Xenopus (89%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RGS19; Polyclonal Antibody; Phospho-RGS19 (Ser151) Antibody; G alpha interacting protein; G protein signalling regulator 19; G protein; alpha-interacting protein; G-alpha-interacting protein; GAIP; GNAI3IP; Guanine nucleotide binding protein alpha inhibiting activity polypeptide 3 interacting protein; Regulator of G protein signalling 19; Regulator of G-protein signaling 19; RGS19_HUMAN; RGSGAIP; anti-RGS19 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (89%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (89%), Xenopus (89%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-RGS19 (Ser151) Antibody detects endogenous levels of RGS19 only when phosphorylated at Ser151. Tissue Specificity: Highest expression in lung. Placenta, liver and heart also express high levels of GAIP.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-RGS19 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RGS19 around the phosphorylation site of Ser151.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Fatty acylated. Heavily palmitoylated in the cysteine string motif. Phosphorylated, mainly on serine residues.
Subunit Structure	Interacts with GIPC PDZ domain.
Subcellular Location	Membrane>Lipid-anchor.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Mouse brain 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis GAIP (Phospho-Ser151) using UV treated K562 whole cell lysates.-/+ means absence or presence of N peptide(¼ non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)
Western blot analysis of extracts from mouse lung, using GAIP (Phospho-Ser151) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-RGS19 antibody	Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Binds to G-alpha subfamily 1 members, with the order G (i)a3 > G (i)a1 > G (o)a >> G (z)a/G (i)a2. Activity on G (z)-alpha is inhibited by phosphorylation and palmitoylation of the G-protein.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	86990435
NCBI GeneID	10287
NCBI Accession #	NP_001034556.1
NCBI GenBank Nucleotide #	NM_001039467.1
UniProt Accession #	P49795; Q53XN0; Q8TD60; A8K216; E1P5G9
Molecular Weight	24,636 Da
NCBI Official Full Name	regulator of G-protein signaling 19
NCBI Official Synonym Full Names	regulator of G-protein signaling 19
NCBI Official Symbol	RGS19
NCBI Official Synonym Symbols	GAIP; RGSGAIP
NCBI Protein Information	regulator of G-protein signaling 19; G alpha interacting protein; G protein signalling regulator 19; G-alpha-interacting protein; guanine nucleotide binding protein alpha inhibiting activity polypeptide 3 interacting protein; regulator of G-protein signal
UniProt Protein Name	Regulator of G-protein signaling 19
UniProt Gene Name	RGS19
UniProt Synonym Gene Names	GAIP; GNAI3IP; RGS19; GAIP
UniProt Entry Name	RGS19_HUMAN

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.