RGS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RGS2, Polyclonal Antibody
Full Product Name	RGS2 Conjugated Antibody
Product Gene Name	anti-RGS2 antibody
Product Synonym Names	G0S8; RGS2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous level of total RGS2 antibody.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	211
OMIM	600861
3D Structure	ModBase 3D Structure for P41220
Immunogen	Recombinant protein of human RGS2.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-RGS2 antibody	Most Applications
Application Notes for anti-RGS2 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-RGS2 antibody	Regulator of G protein signaling (RGS) family members are regulatory molecules that act as GTPase activating proteins (GAPs) for G alpha subunits of heterotrimeric G proteins. RGS proteins are able to deactivate G protein subunits of the Gi alpha, Go alpha and Gq alpha subtypes. They drive G proteins into their inactive GDP-bound forms. Regulator of G protein signaling 2 belongs to this family. The protein acts as a mediator of myeloid differentiation and may play a role in leukemogenesis. [provided by RefSeq, Aug 2009]
Other Notes	Small volumes of anti-RGS2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RGS2 purchase	MBS9448549 is an antibody targeting RGS2. Also known as RGS2 Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RGS2. It may not necessarily be applicable to this product.

NCBI GI #	729545
NCBI GeneID	5997
NCBI Accession #	P41220.1
UniProt Primary Accession #	P41220
UniProt Secondary Accession #	Q6I9U5
UniProt Related Accession #	P41220
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
UniProt Protein Name	Regulator of G-protein signaling 2
UniProt Synonym Protein Names	Cell growth-inhibiting gene 31 protein; G0/G1 switch regulatory protein 8
Protein Family	Regulator of G-protein signaling
UniProt Gene Name	RGS2
UniProt Synonym Gene Names	G0S8; RGS2
UniProt Entry Name	RGS2_HUMAN
NCBI Protein Information	regulator of G-protein signaling 2; G0/G1 switch regulatory protein 8; cell growth-inhibiting protein 31; G0 to G1 switch regulatory 8, 24kD; cell growth-inhibiting gene 31 protein; regulator of G-protein signaling 2, 24kDa
UniProt Comments for RGS2	RGS2: Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. May play a role in leukemogenesis. Plays a role in negative feedback control pathway for adenylyl cyclase signaling. Binds EIF2B5 and blocks its activity, thereby inhibiting the translation of mRNA into protein. 4 isoforms of the human protein are produced by alternative initiation. Protein type: Nucleolus; GAPs, misc.; GAPs Chromosomal Location of Human Ortholog: 1q31 Cellular Component: internal side of plasma membrane; neuron projection; mitochondrion; cytoplasm; plasma membrane; nucleolus; cytosol Molecular Function: calmodulin binding; protein binding; beta-tubulin binding; GTPase activator activity Biological Process: regulation of translation; negative regulation of MAP kinase activity; relaxation of vascular smooth muscle; negative regulation of G-protein coupled receptor protein signaling pathway; positive regulation of microtubule polymerization; brown fat cell differentiation; spermatogenesis; cell cycle; regulation of G-protein coupled receptor protein signaling pathway; positive regulation of GTPase activity
Research Articles on RGS2	**1.** Women carrying the rs4606 CG or GG genotype are at elevated risk for developing hypertension after delivery following a preeclamptic pregnancy.
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