RGS4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RGS4, Polyclonal Antibody
Full Product Name	RGS4 Antibody; FITC conjugated
Product Gene Name	anti-RGS4 antibody
Product Synonym Names	Regulator of G-protein signaling 4; RGP4; RGS4; RGS4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%,Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: RGS4 (MBS7004046) FITC Conjugated Antibody: RGS4 (MBS7002710)
Molecular Weight	21,452 Da
OMIM	181500
3D Structure	ModBase 3D Structure for P49798
Immunogen	Recombinant human Regulator of G-protein signaling 4 protein
Conjugation	FITC
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-6204 / sc-6203 / sc-31187
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RGS4 antibody	ELISA (EIA)
Related Product Information for anti-RGS4 antibody	Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Activity on G(z)-alpha is inhibited by phosphorylation of the G-protein. Activity on G(z)-alpha and G(i)-alpha-1 is inhibited by palmitoylation of the G-protein.
Other Notes	Small volumes of anti-RGS4 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 RGS4 purchase	MBS7002710 is an antibody targeting RGS4. Also known as RGS4 Antibody; FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RGS4. It may not necessarily be applicable to this product.

NCBI GI #	156416012

NCBI GeneID	5999
NCBI Accession #	NP_001095915.1
UniProt Primary Accession #	P49798
UniProt Secondary Accession #	A7XA56; A7XA58; A7XA59; A7YVV7; B1APZ3
UniProt Related Accession #	P49798
GenBank Nucleotide #	NM_001102445.2
NCBI Official Full Name	regulator of G-protein signaling 4 isoform 1
NCBI Official Synonym Full Names	regulator of G-protein signaling 4
NCBI Official Symbol	RGS4
NCBI Official Synonym Symbols	RGP4; SCZD9
UniProt Protein Name	Regulator of G-protein signaling 4
Protein Family	Regulator of G-protein signaling
UniProt Gene Name	RGS4
UniProt Synonym Gene Names	RGP4; RGS4
UniProt Entry Name	RGS4_HUMAN
NCBI Protein Information	regulator of G-protein signaling 4
NCBI Summary for RGS4	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 4 belongs to this family. All RGS proteins share a conserved 120-amino acid sequence termed the RGS domain. Regulator of G protein signaling 4 protein is 37% identical to RGS1 and 97% identical to rat Rgs4. This protein negatively regulate signaling upstream or at the level of the heterotrimeric G protein and is localized in the cytoplasm. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for RGS4	RGS4: Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Activity on G(z)-alpha is inhibited by phosphorylation of the G-protein. Activity on G(z)-alpha and G(i)-alpha-1 is inhibited by palmitoylation of the G-protein. Expressed in brain and heart. Expressed in brain at protein level. Expressed in prefontal and visual cortex. Isoform 4 and isoform 5 are expressed ubiquitously. Isoform 1, isoform 2 and isoform 3 are not expressed in the cerebellum. 5 isoforms of the human protein are produced by alternative splicing. Protein type: GAPs, RGS; GAPs Chromosomal Location of Human Ortholog: 1q23.3 Cellular Component: cytoplasm; cytosol; nucleus; plasma membrane; protein complex Molecular Function: calmodulin binding; G-protein alpha-subunit binding; GTPase activator activity Biological Process: inactivation of MAPK activity; negative regulation of G-protein coupled receptor protein signaling pathway; positive regulation of GTPase activity; regulation of G-protein coupled receptor protein signaling pathway Disease: Schizophrenia 9
Research Articles on RGS4	**1.** After alphao dissociates from MOR, RGS4 remains bound to the C-terminal region of MOR
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