Regulator of G Protein Signaling 4 (RGS4) ELISA Kit for Goat

PRODUCT OVERVIEW

Product Name	Regulator of G Protein Signaling 4 (RGS4), ELISA Kit
Full Product Name	Goat Regulator of G Protein Signaling 4 ELISA Kit
Product Gene Name	RGS4 elisa kit
Species Reactivity	Goat
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	23,256 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (163038396..163046592). Location: 1q23.3
OMIM	181500
3D Structure	ModBase 3D Structure for P49798
Related Product Information for RGS4 elisa kit	MBS017015 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Regulator of G Protein Signaling 4 (RGS4) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing RGS4. The ELISA analytical biochemical technique of the MBS017015 kit is based on RGS4 antibody-RGS4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect RGS4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, RGS4. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of RGS4 elisa kit 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.

ADDITIONAL DETAILS

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

NCBI GI #	5032039
NCBI GeneID	5999
NCBI Accession #	NP_005604.1
UniProt Primary Accession #	P49798
UniProt Secondary Accession #	A7XA56; A7XA58; A7XA59; A7YVV7; B1APZ3
UniProt Related Accession #	P49798
GenBank Nucleotide #	NM_005613.5
NCBI Official Full Name	regulator of G-protein signaling 4 isoform 2
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; schizophrenia disorder 9
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: protein complex; cytoplasm; plasma membrane; cytosol Molecular Function: calmodulin binding; G-protein alpha-subunit binding; GTPase activator activity Biological Process: regulation of G-protein coupled receptor protein signaling pathway; inactivation of MAPK activity; positive regulation of GTPase activity Disease: Schizophrenia 9
Research Articles on RGS4	**1.** dramatic up-regulation of RGS4 expression in the nucleus accumbens of subjects treated with monoamine-directed antidepressants
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