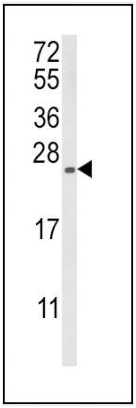
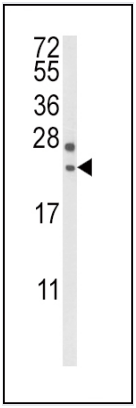
RGS4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

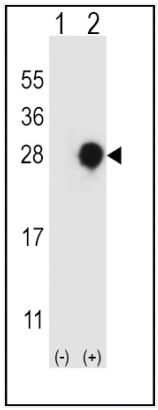
Product Name	RGS4, Polyclonal Antibody
Full Product Name	RGS4, ID (Regulator of G-protein Signaling 4, RGP4) (Biotin)
Product Gene Name	anti-RGS4 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human RGS4. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
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
Immunogen	Synthetic peptide selected from the center region of human RGS4 (KLH).
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-RGS4 antibody	Antibodies; G Proteins
Applications Tested/Suitable for anti-RGS4 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-RGS4 antibody	WB: 1:100-1:500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-RGS4 antibody	MBS6497478 is an antibody targeting RGS4. Also known as RGS4, ID (Regulator of G-protein Signaling 4, RGP4) (Biotin). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-RGS4 antibody	1. Heximer, S.P., et.al., Proc. Natl. Acad. Sci. USA 94(26), 14389-14393 (1997).
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.



Western Blot (WB) of anti-RGS4 antibody
Western blot analysis of RGS4 Antibody (Center) in MDA-MB231 cell line lysates (35ug/lane). RGS4 (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-RGS4 antibody
Western blot analysis of RGS4 Antibody (Center) in mouse brain tissue lysates (35ug/lane). RGS4 (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-RGS4 antibody
Western blot analysis of RGS4 (arrow) using rabbit polyclonal RGS4 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the RGS4 gene.

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; positive regulation of GTPase activity; inactivation of MAPK 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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