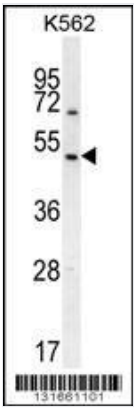
RGS7 Antibody – Rabbit Polyclonal

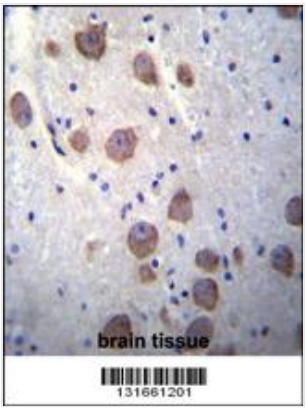
PRODUCT OVERVIEW

Product Name	RGS7, Polyclonal Antibody
Full Product Name	RGS7, CT (RGS7, Regulator of G-protein signaling 7) (FITC)
Product Gene Name	anti-RGS7 antibody
Product Synonym Names	RGS7; Regulator of G-protein signaling 7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
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. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	57,668 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (240938817..241520478, complement). Location: 1q43; 1q23.1
OMIM	602517
3D Structure	ModBase 3D Structure for P49802
Immunogen	RGS7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 447-477 amino acids from the C-terminal region of human RGS7.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-RGS7 antibody	Antibodies; G Proteins
Applications Tested/Suitable for anti-RGS7 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-RGS7 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-RGS7 antibody	RGS7 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(o)-alpha is specifically enhanced by the RGS6/GNG5 dimer. May play a role in synaptic vesicle exocytosis. May play important role in the rapid regulation of neuronal excitability and the cellular responses to short-lived stimulations (By similarity).

Product References and Citations for anti-RGS7 antibody	Bailey, S.D., et al. Diabetes Care (2010). In press: Wang, J., et al. Carcinogenesis (2010). In press: Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009). McCauley, J.L., et al. Genes Immun. 10(7):624-630(2009).
Other Notes	Small volumes of anti-RGS7 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 RGS7 purchase	MBS6341799 is an antibody targeting RGS7. Also known as RGS7, CT (RGS7, Regulator of G-protein signaling 7) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-RGS7 antibody
RGS7 Antibody (C-term) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the RGS7 antibody detected the RGS7 protein (arrow).



Immunohistochemistry (IHC) of anti-RGS7 antibody
RGS7 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RGS7 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RGS7. It may not necessarily be applicable to this product.

NCBI GI #	156627563
NCBI GeneID	6000
NCBI Accession #	NP_002915.3
UniProt Primary Accession #	P49802
UniProt Secondary Accession #	Q5T3H4; Q8TD66; Q8TD67; Q8WW09; Q9UNU7; Q9Y6B9
UniProt Related Accession #	P49802
GenBank Nucleotide #	NM_002924.4
NCBI Official Full Name	regulator of G-protein signaling 7
NCBI Official Synonym Full Names	regulator of G-protein signaling 7
NCBI Official Symbol	RGS7
UniProt Protein Name	Regulator of G-protein signaling 7
Protein Family	Regulator of G-protein signaling
UniProt Gene Name	RGS7
UniProt Synonym Gene Names	RGS7
UniProt Entry Name	RGS7_HUMAN
NCBI Protein Information	regulator of G-protein signaling 7; regulator of G-protein signalling 7; regulator of G-protein signaling RGS7

UniProt Comments for RGS7	RGS7: 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(o)-alpha is specifically enhanced by the RGS6/GNG5 dimer. May play a role in synaptic vesicle exocytosis. May play important role in the rapid regulation of neuronal excitability and the cellular responses to short-lived stimulations. Heterodimer with GNG5. Interacts with RGS7BP, leading to regulate the subcellular location of the heterodimer formed with Gbeta5 (By similarity). Interacts with 14-3-3 protein Tau and SNAP25BP. Four alternatively spliced isoforms have been described. Protein type: GAPs, RGS; GAPs Chromosomal Location of Human Ortholog: 1q43|1q23.1 Cellular Component: cytoplasm; plasma membrane; heterotrimeric G-protein complex; nucleus; cytosol Molecular Function: signal transducer activity; G-protein beta-subunit binding; GTPase activator activity Biological Process: G-protein coupled receptor protein signaling pathway; positive regulation of GTPase activity
Research Articles on RGS7	**1.** Gi/o signaling and the palmitoyltransferase DHHC2 regulate palmitate cycling and shuttling of RGS7 family-binding protein.
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