RGS9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RGS9, Polyclonal Antibody
Full Product Name	RGS9 (N-Term) Rabbit pAb
Product Gene Name	anti-RGS9 antibody
Product Synonym Names	Regulator of G-protein signaling 9; RGS9; RGS9
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB34256
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Affinity Purified
OMIM	gene 608415
3D Structure	ModBase 3D Structure for O75916
Immunogen	This RGS9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 149-178 amino acids from the N-terminal region of human RGS9.
Cellular Localization	Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RGS9 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-RGS9 antibody	WB: 1:1000 IHC: 1:10-50
Related Product Information for anti-RGS9 antibody	MBS8552256 is an antibody targeting RGS9. Also known as RGS9 (N-Term) Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-RGS9 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RGS9. It may not necessarily be applicable to this product.

NCBI GI #	8475983
NCBI GeneID	8787
NCBI Accession #	O75916.1
UniProt Primary Accession #	O75916
UniProt Related Accession #	O75916

NCBI Official Full Name	Regulator of G-protein signaling 9
NCBI Official Synonym Full Names	regulator of G protein signaling 9
NCBI Official Symbol	RGS9
NCBI Official Synonym Symbols	PERRS; RGS9L
UniProt Protein Name	Regulator of G-protein signaling 9
Protein Family	Regulator of G-protein signaling
UniProt Gene Name	RGS9
UniProt Synonym Gene Names	RGS9
UniProt Entry Name	RGS9_HUMAN
NCBI Protein Information	regulator of G-protein signaling 9
NCBI Summary for RGS9	This gene encodes a member of the RGS family of GTPase activating proteins that function in various signaling pathways by accelerating the deactivation of G proteins. This protein is anchored to photoreceptor membranes in retinal cells and deactivates G proteins in the rod and cone phototransduction cascades. Mutations in this gene result in bradyopsia. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]
UniProt Comments for RGS9	RGS9: belongs to the 'regulator of G protein signaling' family. Inhibits signal transduction by increasing the GTPAse activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Binds to G(t)-alpha. Involved in phototransduction; key element in the recovery phase of visual transduction. Four alternatively spliced isoforms have been described. Protein type: GAPs, RGS; GAPs Chromosomal Location of Human Ortholog: 17q24 Cellular Component: cytoplasm; plasma membrane; heterotrimeric G-protein complex; nucleus Molecular Function: signal transducer activity; protein complex binding; GTPase activator activity Biological Process: rhodopsin mediated signaling; phototransduction, visible light; nervous system development; regulation of rhodopsin mediated signaling; visual perception; response to estrogen stimulus; dopamine receptor signaling pathway; regulation of G-protein coupled receptor protein signaling pathway; positive regulation of GTPase activity Disease: Prolonged Electroretinal Response Suppression
Research Articles on RGS9	**1.** This case series highlights the clinical presentations and features of 5 affected children (3 Arab families) who harbored the same homozygous RGS9 frameshift mutation, which seems to represent a founder effect for the Arabian Peninsula.
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