

Rabbit RGS7 Polyclonal Antibody | anti-RGS7 antibody

RGS7 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325069	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

RGS7; Polyclonal Antibody; RGS7 Antibody; OTTHUMP00000037994; Regulator of G protein signalling 7; Regulator of G-protein signaling 7; Regulator of G-protein signaling RGS7; Regulator of G-protein signalling 7; anti-RGS7 antibody

PRODUCT SPECIFICATIONS

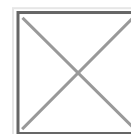
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RGS7 antibody detects endogenous levels of total RGS7
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	424
Applicable Applications for anti-RGS7 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasmic
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from Jurkat cells, using RGS7 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA325069 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-RGS7 antibody	Function: Regulates G protein-coupled receptor signaling cascades. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form (PubMed:10521509, PubMed:10862767). The RGS7/GNB5 dimer enhances GNAO1 GTPase activity (PubMed:10521509). May play a role in synaptic vesicle exocytosis (PubMed:12659861). Modulates the activity of potassium channels that are activated by GNAO1 in response to muscarinic acetylcholine receptor M2/CHRM2 signaling (PubMed:15897264). Subunit Structure: Interacts with PKD1; this prevents rapid proteasomal degradation (PubMed:10339594). Interacts with GNB5 (PubMed:10521509, PubMed:10339615). Interacts with RGS7BP, leading to regulate the subcellular location of the heterodimer formed with GNB5 (PubMed:15897264). Interacts (phosphorylated form) with 14-3-3 protein YWHAQ (PubMed:10862767). Interacts with SNAPIN (PubMed:12659861). Interacts with GNAI1 (PubMed:18434541). Interacts with GNAO1, GNAI3 and GNAZ (By similarity). Post-translational Modifications: Palmitoylated. Ubiquitinated, leading to rapid proteasomal degradation. Phosphorylation and subsequent interaction with 14-3-3 proteins inhibits GAP activity.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	544346172
NCBI GeneID	6000
NCBI Accession #	NP_001269702.1
NCBI GenBank Nucleotide #	NM_001282773.2
UniProt Accession #	P49802; Q5T3H4; Q8TD66; Q8TD67; Q8WW09; Q9UNU7; Q9Y6B9
Molecular Weight	Observed: 65 kD Predicted: 58 kDa
NCBI Official Full Name	regulator of G-protein signaling 7 isoform 2
NCBI Official Synonym Full Names	regulator of G protein signaling 7
NCBI Official Symbol	RGS7
NCBI Protein Information	regulator of G-protein signaling 7
UniProt Protein Name	Regulator of G-protein signaling 7
UniProt Gene Name	RGS7
UniProt Synonym Gene Names	RGS7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.