

Anti-RGS3 Antibody

Catalog # ABO11358

Product Information

Application	WB, IHC-P
Primary Accession	Q9DC04
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Regulator of G-protein signaling 3(Rgs3) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	50780
Other Names	Regulator of G-protein signaling 3, RGS3, C2PA, Rgs3
Calculated MW	106219
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse
Subcellular Localization	Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side. The long isoforms are cytoplasmic.
Tissue Specificity	Detected in embryos from E8.5-16.5 in cortical ventricular zone, dorsal root ganglia and cerebellar primordia. Isoform 3 is detected in testis and in spermatocytes from newborn mice. Levels increase and reach a maximum after 21 days; after this they decrease again. Long isoforms are widely expressed. .
Source	Eukaryota
Protein Name	Regulator of G-protein signaling 3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse RGS3(909-925aa DSYTREHTKENLQSITR), identical to the related rat sequence, and different from the related human sequence by two amino acids.

Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Contains 1 PDZ (DHR) domain.

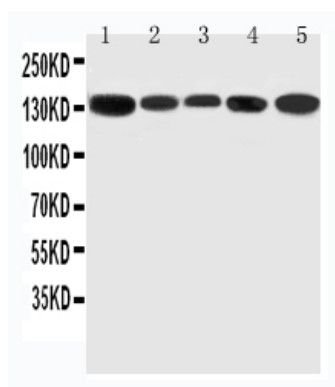
Protein Information

Name	Rgs3
Function	Down-regulates signaling from heterotrimeric G proteins by increasing the GTPase activity of the alpha subunits, thereby driving them into their inactive GDP-bound form. Down-regulates G protein-mediated release of inositol phosphates and activation of MAP kinases.
Cellular Location	Cytoplasm. Cell membrane {ECO:0000250 UniProtKB:P49796}; Peripheral membrane protein {ECO:0000250 UniProtKB:P49796}; Cytoplasmic side {ECO:0000250 UniProtKB:P49796}. Note=Long isoforms are cytoplasmic and associated with the plasma membrane. Short isoforms are nuclear {ECO:0000250 UniProtKB:P49796} [Isoform 3]: Nucleus
Tissue Location	Detected in embryos from E8.5-16.5 in cortical ventricular zone, dorsal root ganglia and cerebellar primordia. Isoform 3 is detected in testis and in spermatocytes from newborn mice. Levels increase and reach a maximum after 21 days; after this they decrease again. Long isoforms are widely expressed

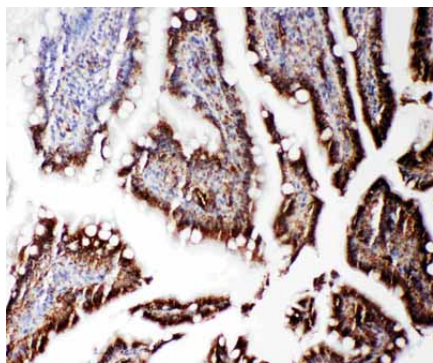
Background

RGS3 (Regulator of G Protein Signaling 3), is a protein that in humans is encoded by the RGS3 gene. Chatterjee et al. (1997) studied RGS3, the largest member of the RGS family then identified. Mouse Pdz-Rgs3 can mediate signaling from the ephrin-B cytoplasmic tail. By radiation hybrid mapping, Chatterjee et al. (1997) assigned the RGS3 gene to chromosome 9q31-q33. Lu et al. (2001) showed that Sdf1, a chemokine with a G protein-coupled receptor, and Bdnf are chemoattractants for cerebellar granule cells, and that Sdf1 chemoattraction is selectively inhibited by soluble ephrin-B receptor. This inhibition could be blocked by a truncated Pdz-Rgs3 protein lacking the RGS domain.

Images



Anti-RGS3 antibody, ABO11358, Western blotting
Lane 1: Rat Testis Tissue Lysate
Lane 2: Rat Brain Tissue Lysate
Lane 3: Rat Spleen Tissue Lysate
Lane 4: HELA Cell Lysate
Lane 5: U87 Cell Lysate



Anti-RGS3 antibody, ABO11358, IHC(P)IHC(P): Rat Intestine Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.