





Product datasheet

Anti-RGS17 / RGSZ2 antibody ab150814

2 Images

Overview

Product name	Anti-RGS17 / RGSZ2 antibody
Description	Rabbit polyclonal to RGS17 / RGSZ2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to amino acids 9-106 of Human RGS17/ RGSZ2 (UniProt ID: Q9UGC6)  Run BLAST with   Run BLAST with 
Positive control	IHC-P: Human testis tissue. WB: Transfected HEK293T whole cell lysates.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab150814 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 24 kDa.
IHC-P		1/50 - 1/200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function

Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Binds selectively to G(z)-alpha and G(alpha)-i2 subunits, accelerates their GTPase activity and regulates their signaling activities. The G(z)-alpha activity is inhibited by the phosphorylation and palmitoylation of the G-protein. Negatively regulates mu-opioid receptor-mediated activation of the G-proteins.

Tissue specificity

Predominantly expressed in the cerebellum. Also expressed in the cortex and medulla. Weakly expressed in a number of peripheral tissues notably spleen, lung and leukocytes.

Sequence similarities

Contains 1 RGS domain.

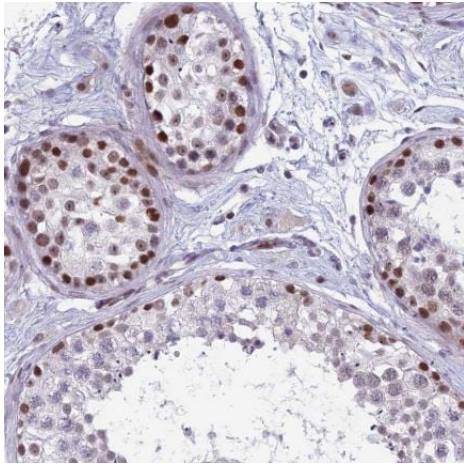
Post-translational modifications

Fatty acylated. Heavily palmitoylated in the cysteine string motif.
N- and O-glycosylated in synapsomal membranes.
Serine phosphorylated in synapsomal membranes.
Sumoylated by SUMO1 and SUMO2 in synaptosomes. The sumoylated forms act as a scaffold for sequestering mu-opioid receptor-activated G(alpha) subunits.

Cellular localization

Membrane. Nucleus. Cytoplasm. Shuttles between the cytoplasm/cell membrane and the nucleus. Anchored to the membrane through palmitoylation.

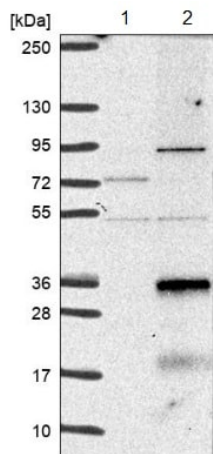
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RGS17 / RGSZ2 antibody (ab150814)

Immunohistochemical analysis of human testis tissue labeling RGS17 / RGSZ2 in the nucleus of a subset of cells in seminiferous ducts with ab150814 at a 1/50 dilution.

Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-RGS17 / RGSZ2 antibody (ab150814)

All lanes : Anti-RGS17 / RGSZ2 antibody (ab150814) at 0.4 µg/ml

Lane 1 : Control (vector only transfected) - HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 2 : RGS17 over-expression - HEK-293T whole cell lysate, Co-expressed with a C-terminal myc-DDK tag (~3.1 kDa)

Predicted band size: 24 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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