

Product datasheet

Anti-RGS20 antibody ab191500

2 References 1 Image

Overview

| | |
|----------------------------|---|
| Product name | Anti-RGS20 antibody |
| Description | Rabbit polyclonal to RGS20 |
| Host species | Rabbit |
| Specificity | This antibody detects endogenous levels of RGS20 |
| Tested applications | Suitable for: WB |
| Species reactivity | Reacts with: Mouse, Rat, Human |
| Immunogen | Synthetic peptide within Human RGS20. The exact sequence is proprietary. Database link: O76081 |
| Positive control | HEK293T, NIH3T3, H9C2 whole cell lysate |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| Storage buffer | Preservative: 0.1% Sodium azide Constituents: 49% PBS, 50% Glycerol |
| Purity | Immunogen affinity purified |
| Purification notes | ab191500 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen, and the purity is > 95% (by SDS-PAGE). |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab191500** 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 at an assay dependent concentration. Predicted molecular weight: 43 kDa. |

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.

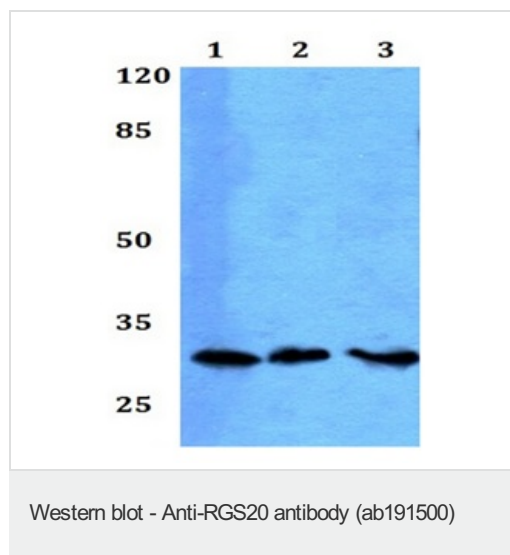
Tissue specificity Isoform 5 is expressed in brain at high levels in the caudate nucleus and temporal lobe.

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 (By similarity). Anchored to the membrane through palmitoylation.

Images



All lanes : Anti-RGS20 antibody (ab191500)

Lane 1 : HEK293T whole cell lysate

Lane 2 : NIH 3T3 whole cell lysate

Lane 3 : H9C2 whole cell lysate

Predicted band size: 43 kDa

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