

RGS10 Antibody
Affinity-Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50030**Specification**

RGS10 Antibody - Product Information

Application	WB
Primary Accession	O43665
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20.21 KDa
Antigen Region	80-113

RGS10 Antibody - Additional Information**Gene ID** 6001**Other Names**

Regulator of G-protein signaling 10, RGS10, RGS10

Dilution

WB~~ 1:1000

FormatRabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.**Storage Conditions**

-20°C

RGS10 Antibody - Protein Information**Name** RGS10**Function**

Regulates G protein-coupled receptor signaling cascades, including signaling downstream of the muscarinic acetylcholine receptor CHRM2. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form (PubMed: [8774883](http://www.uniprot.org/citations/8774883), PubMed: [10608901](http://www.uniprot.org/citations/10608901), PubMed: [9353196](http://www.uniprot.org/citations/9353196), PubMed: [11443111](http://www.uniprot.org/citations/11443111), PubMed: [18434541](http://www.uniprot.org/citations/18434541)). Modulates the activity of potassium channels that are activated in response to CHRM2 signaling (PubMed: [11443111](http://www.uniprot.org/citations/11443111)). Activity on GNAZ is inhibited by palmitoylation of the G-protein (PubMed: [9353196](http://www.uniprot.org/citations/9353196)).

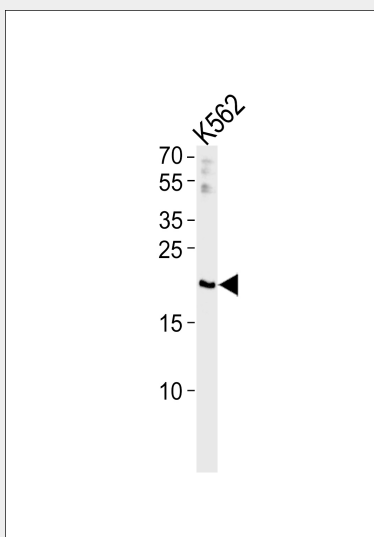
Cellular Location

[Isoform 1]: Cytoplasm, cytosol. Nucleus Note=Forskolin treatment promotes phosphorylation and translocation to the nucleus.

RGS10 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RGS10 Antibody - Images

Western blot analysis of lysates from K562 cell line, using RGS10 Antibody (C18309). C18309 was diluted at 1:1000. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 µg.

RGS10 Antibody - Background

Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Associates specifically with the activated forms of the G protein subunits G(i)-alpha and G(z)-alpha but fails to interact with the structurally and functionally distinct G(s)-alpha subunit. Activity on G(z)-alpha is inhibited by palmitoylation of the G-protein.

RGS10 Antibody - References

- Hunt T.W., et al. Nature 383:175-177 (1996).
Chatterjee T.K., et al. J. Biol. Chem. 275:24013-24021 (2000).
Burgon P.G., et al. J. Biol. Chem. 276:32828-32834 (2001).
Puhl H.L. III, et al. Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).