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RGS10 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50030

Product Information

Application	WB
Primary Accession	O43665
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	21210

Additional Information

Gene ID	6001
Other Names	Regulator of G-protein signaling 10, RGS10, RGS10
Dilution	WB~~ 1:1000
Format	Rabbit 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℃

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:10608901, PubMed:11443111, PubMed:18434541, PubMed:8774883, PubMed:9353196). Modulates the activity of potassium channels that are activated in response to CHRM2 signaling (PubMed:11443111). Activity on GNAZ is inhibited by palmitoylation of the G protein (PubMed:9353196).
Cellular Location	[Isoform 1]: Cytoplasm, cytosol. Nucleus Note=Forskolin treatment promotes phosphorylation and translocation to the nucleus.

Background

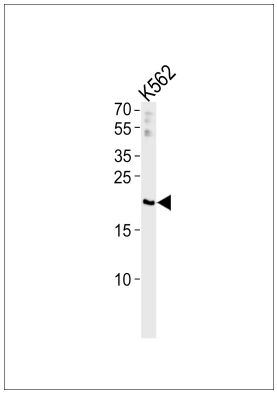
Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Associates specifically with the activated forms of the G protein

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.

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

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 35ug.

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