

RGS20 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20629c**Specification**

RGS20 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O76081
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	43692

RGS20 Antibody (Center) - Additional Information**Gene ID** 8601**Other Names**

Regulator of G-protein signaling 20, RGS20, Gz-selective GTPase-activating protein, G(z)GAP, Gz-GAP, Regulator of G-protein signaling Z1, Regulator of Gz-selective protein signaling 1, RGS20, RGSZ1, ZGAP1

Target/Specificity

This RGS20 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 150-184 amino acids from the Central region of human RGS20.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

RGS20 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

RGS20 Antibody (Center) - Protein Information**Name** RGS20**Synonyms** RGSZ1, ZGAP1

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 (By similarity).

Cellular Location

Membrane; Lipid-anchor. Nucleus. Cytoplasm. Note=Shuttles between the cytoplasm/cell membrane and the nucleus Anchored to the membrane through palmitoylation.

Tissue Location

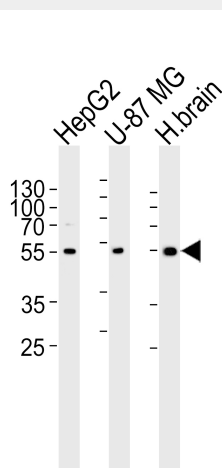
Isoform 5 is expressed in brain at high levels in the caudate nucleus and temporal lobe

RGS20 Antibody (Center) - 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](#)

RGS20 Antibody (Center) - Images



Western blot analysis of lysates from HepG2, U-87 MG cell line and human brain tissue lysate(from left to right), using RGS20 Antibody (Center)(Cat. #AP20629c). AP20629c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

RGS20 Antibody (Center) - Background

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 (By similarity).

RGS20 Antibody (Center) - References

Wang J.,et al.J. Biol. Chem. 273:26014-26025(1998).
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Barker S.A.,et al.Genomics 78:223-229(2001).
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Glick J.L.,et al.J. Biol. Chem. 273:26008-26013(1998).