

Anti-RGS10 Antibody

Catalog # AP59691

Product Information

Application	WB, IHC, IF/IC
Primary Accession	O43665
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21210

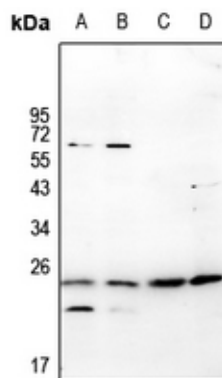
Additional Information

Gene ID	6001
Other Names	Regulator of G-protein signaling 10; RGS10
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RGS10. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

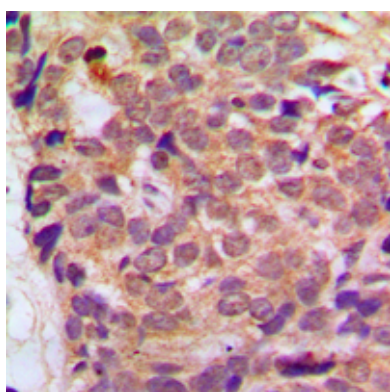
Protein Information

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.

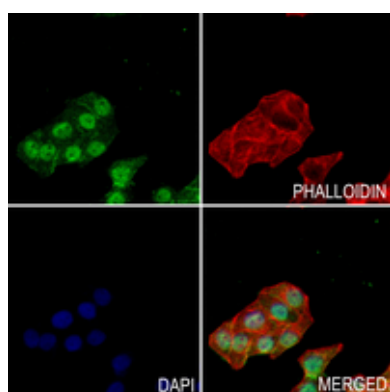
Images



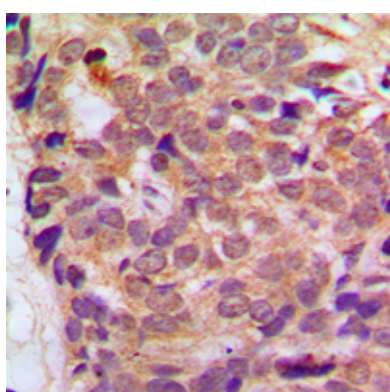
Western blot analysis of RGS10 expression in Jurkat (A), Myla2059 (B), Raw264.7 (C), PC12 (D) whole cell lysates. (Predicted band size: 21 kDa; Observed band size: 20 kDa)



Immunohistochemical analysis of RGS10 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of RGS10 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



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