10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-RGS5 Antibody

Catalog # AP51842

Product Information

Application	WB, IHC, IF/IC
Primary Accession	O15539
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20946

Additional Information

Gene ID	8490
Other Names	Regulator of G-protein signaling 5; RGS5
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RGS5. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 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

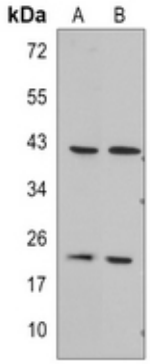
Protein Information

Name	RGS5
Function	Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Binds to G(i)-alpha and G(o)-alpha, but not to G(s)-alpha (By similarity).
Cellular Location	[Isoform 1]: Cytoplasm. Membrane

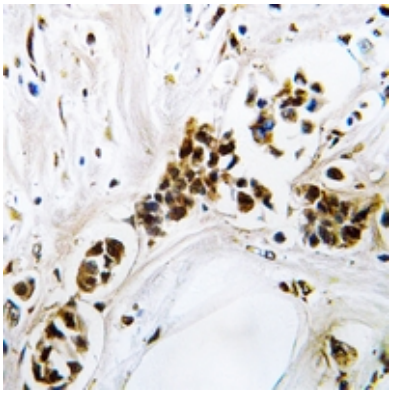
References

Chatterjee T.K.,et al.Submitted (OCT-1997) to the EMBL/GenBank/DDBJ databases.
Seki N.,et al.J. Hum. Genet. 43:202-205(1998).
Cismowski M.J.,et al.Nat. Biotechnol. 17:878-883(1999).
Liang Y.,et al.FEBS J. 272:791-799(2005).
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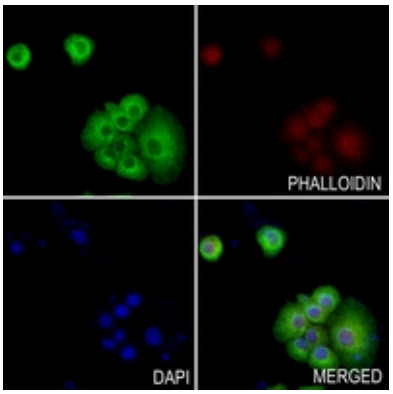
Images



Western blot analysis of RGS5 expression in Hela (A), rat lung (B) whole cell lysates. (Predicted band size: 20 kD; Observed band size: 21; 42 kD)



Immunohistochemical analysis of RGS5 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 RGS5 staining in Hela 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.

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