

RGS12 Polyclonal Antibody

Catalog No :	YT4072
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA;IHC
Target :	RGS12
Gene Name :	RGS12
Protein Name :	Regulator of G-protein signaling 12
Human Gene Id :	6002
Human Swiss Prot No :	O14924
Mouse Gene Id :	71729
Mouse Swiss Prot No :	Q8CGE9
Rat Gene Id :	54292
Rat Swiss Prot No :	O08774
Immunogen :	The antiserum was produced against synthesized peptide derived from human RGS12. AA range:141-190
Specificity :	RGS12 Polyclonal Antibody detects endogenous levels of RGS12 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 160kD

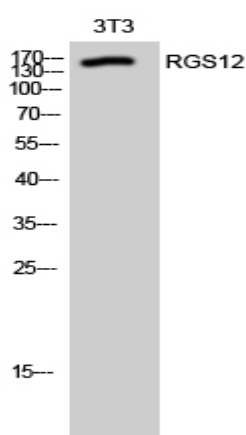
Background : This gene encodes a member of the 'regulator of G protein signaling' (RGS) gene family. The encoded protein may function as a guanosine triphosphatase (GTPase)-activating protein as well as a transcriptional repressor. This protein may play a role in tumorigenesis. Multiple transcript variants encoding distinct isoforms have been identified for this gene. Other alternative splice variants have been described but their biological nature has not been determined. [provided by RefSeq, Jul 2008],

Function : function:Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Contains 1 GoLoco domain.,similarity:Contains 1 PDZ (DHR) domain.,similarity:Contains 1 PID domain.,similarity:Contains 1 RGS domain.,similarity:Contains 2 RBD (Ras-binding) domains.,tissue specificity:Isoform 3 is brain specific.,

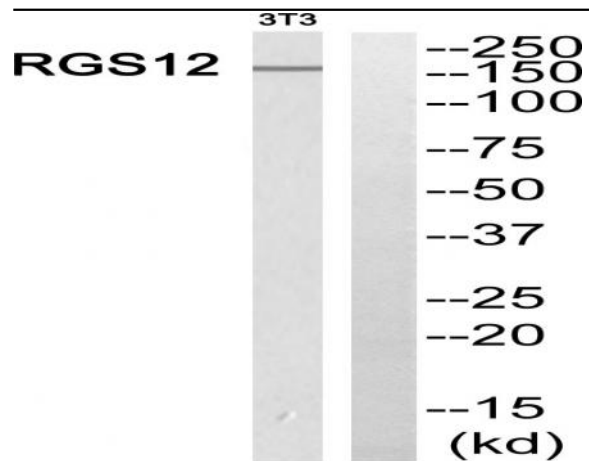
Subcellular Location : Nucleus . Cytoplasm . Cell projection, dendrite . Cell junction, synapse .; [Isoform 5]: Nucleus matrix . Also localized to discrete nuclear foci that are distinct from sites of RNA processing, PML nuclear bodies, and PcG domains. .

Expression : Isoform 3 is brain specific.

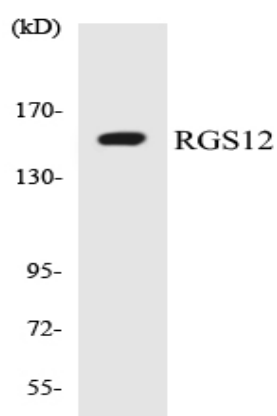
Products Images



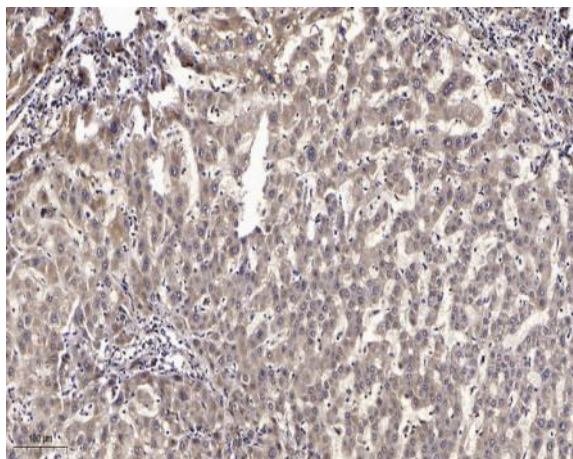
Western Blot analysis of 3T3 cells using RGS12 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Western blot analysis of RGS12 Antibody. The lane on the right is blocked with the RGS12 peptide.



Western blot analysis of the lysates from HUVEC cells using RGS12 antibody.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).