

RGS10 Polyclonal Antibody

Catalog No :	YT4071
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	RGS10
Gene Name :	RGS10
Protein Name :	Regulator of G-protein signaling 10
Human Gene Id :	6001
Human Swiss Prot No :	O43665
Mouse Gene Id :	67865
Mouse Swiss Prot No :	Q9CQE5
Rat Swiss Prot No :	P49806
Immunogen :	The antiserum was produced against synthesized peptide derived from human RGS10. AA range:80-129
Specificity :	RGS10 Polyclonal Antibody detects endogenous levels of RGS10 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
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 : 20kD

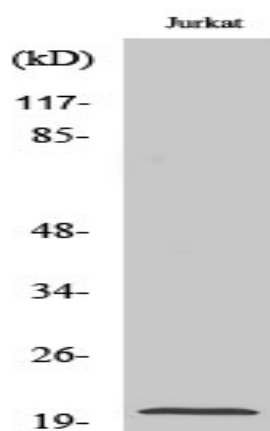
Background : Regulator of G protein signaling (RGS) family members are regulatory molecules that act as GTPase activating proteins (GAPs) for G alpha subunits of heterotrimeric G proteins. RGS proteins are able to deactivate G protein subunits of the Gi alpha, Go alpha and Gq alpha subtypes. They drive G proteins into their inactive GDP-bound forms. Regulator of G protein signaling 10 belongs to this family. All RGS proteins share a conserved 120-amino acid sequence termed the RGS domain. This protein associates specifically with the activated forms of the two related G-protein subunits, G-alpha_{i3} and G-alpha_z but fails to interact with the structurally and functionally distinct G-alpha subunits. Regulator of G protein signaling 10 protein is localized in the nucleus. Two transcript variants encoding different isoforms have been found for this gene. [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. 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.,PTM:Isoform 3 is phosphorylated on Ser-16.,similarity:Contains 1 RGS domain.,

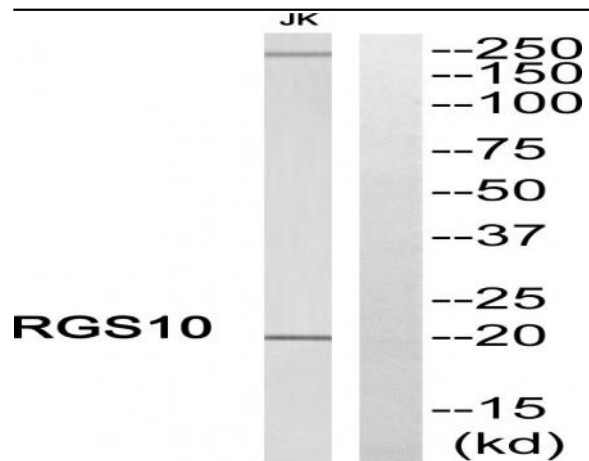
Subcellular Location : [Isoform 1]: Cytoplasm, cytosol . Nucleus . Forskolin treatment promotes phosphorylation and translocation to the nucleus. .; Nucleus .

Expression : Uterus,

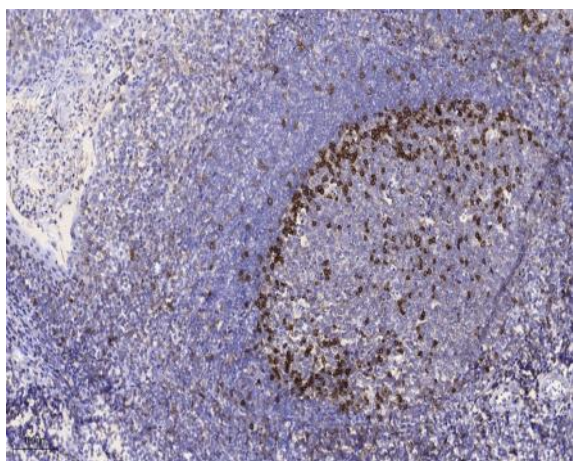
Products Images



Western Blot analysis of various cells using RGS10 Polyclonal Antibody



Western blot analysis of RGS10 Antibody. The lane on the right is blocked with the RGS10 peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 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).