

RGS1 Polyclonal Antibody

Catalog No :	YT4070
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	RGS1
Gene Name :	RGS1
Protein Name :	Regulator of G-protein signaling 1
Human Gene Id :	5996
Human Swiss Prot	Q08116
No :	50778
mouse dene la :	50776
Mouse Swiss Prot No :	Q9JL25
Rat Gene Id :	54289
Rat Swiss Prot No :	P97844
Immunogen :	The antiserum was produced against synthesized peptide derived from human RGS1. AA range:118-167
Specificity :	RGS1 Polyclonal Antibody detects endogenous levels of RGS1 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: 1:20000 IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity- chromatography using epitope-specific immunogen.



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Concentration :	1 mg/ml	
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)	
Observed Band :	22kD	
Background :	This gene encodes a member of the regulator of G-protein signalling family. This protein is located on the cytosolic side of the plasma membrane and contains a conserved, 120 amino acid motif called the RGS domain. The protein attenuates the signalling activity of G-proteins by binding to activated, GTP-bound G alpha subunits and acting as a GTPase activating protein (GAP), increasing the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, forming inactive G-protein heterotrimers, thereby terminating the signal. [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. This protein may be involved in the regulation of B-cell activation and proliferation.,induction:In response to several B-cell activation signals.,PTM:Could be phosphorylated. Might be functionally regulated by protein kinase(s).,similarity:Contains 1 RGS domain.,tissue specificity:B-cell specific. Expression is relatively low in B-cells and chronic lymphocytic leukemia B-cells; however, in other types of malignant B-cell such as non-Hodgkin's lymphoma and hairy cell leukemia, expression is constitutively high.,	
Subcellular Location :	Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Cytoplasm, cytosol .	
Expression :	Detected in peripheral blood monocytes (PubMed:10480894). Expression is relatively low in B-cells and chronic lymphocytic leukemia B-cells; however, in other types of malignant B-cell such as non-Hodgkin lymphoma and hairy cell leukemia, expression is constitutively high (PubMed:8473738).	
Sort :	14429	
No4 :	1	

Products Images





Western Blot analysis of various cells using RGS1 Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using RGS1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from mouse muscle cells, using RGS1 Antibody. The lane on the right is blocked with the synthesized peptide.





Western blot analysis of the lysates from 293 cells using RGS1 antibody.