



RGS1 Polyclonal Antibody

Catalog No	YP-Ab-04119
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	RGS1
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	IER1;Early response protein 1R20;BL34;B-cell activation protein BL34;Regulator of G-protein signaling 1;RGS1;1R20
Observed Band	22kD
Calculated Molecular Weight	22kD
Cell Pathway	Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Cytoplasm, cytosol .
Tissue Specificity	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).
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.,

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],

matters needing attention

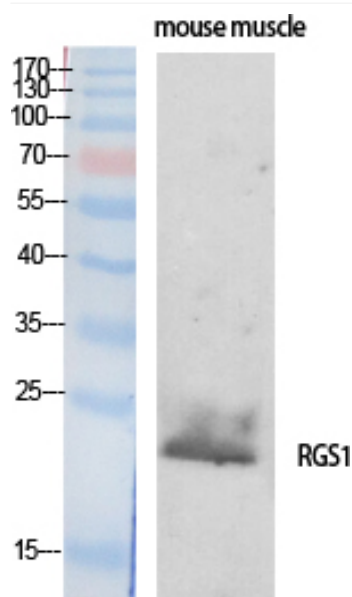
Avoid repeated freezing and thawing!

Usage suggestions

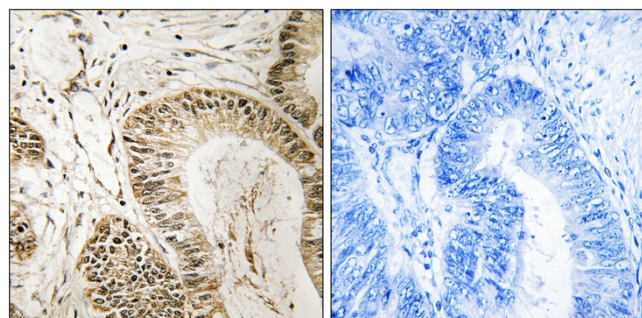
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



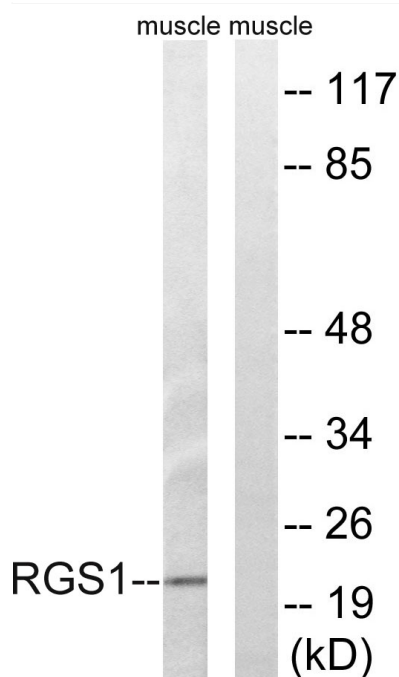
Products Images



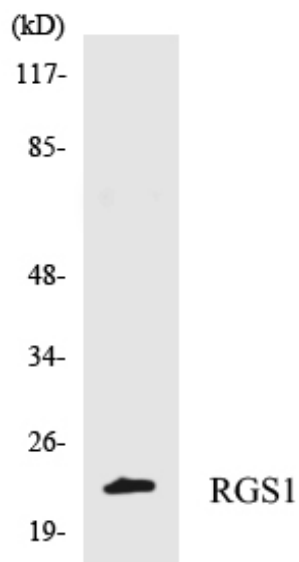
Western Blot analysis of various cells using RGS1 Polyclonal Antibody



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.