



Rap1GAP Monoclonal Antibody

Catalog No	YP-mAb-16226
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	RAP1GAP
Immunogen	Synthesized peptide derived from Rap1GAP . at AA range: 460-540
Specificity	Rap1GAP Monoclonal Antibody detects endogenous levels of Rap1GAP protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	KIAA0474;RAP1 GTPase activating protein;Rap1 GTPase-activating protein 1; RAP1GA1;RAP1GAP1;Rap1GAP
Observed Band	73kD
Calculated Molecular Weight	73kD
Cell Pathway	Golgi apparatus membrane; Peripheral membrane protein.
Tissue Specificity	Significant expression seen in the brain, kidney and pancreas. Abundant in the cerebral cortex and expressed at much lower levels in the spinal cord. Not detected in the lymphoid tissues.
Function	function:GTPase activator for the nuclear Ras-related regulatory protein RAP-1A (KREV-1), converting it to the putatively inactive GDP-bound state.,induction:By 12-O-tetradecanoylphorbol-13-acetate (TPA) in promyelocytic HL-60 cells., similarity:Contains 1 GoLoco domain.,similarity:Contains 1 Rap-GAP domain., tissue specificity:Significant expression seen in the brain, kidney and pancreas. Abundant in the cerebral cortex and expressed at much lower levels in the spinal cord. Not detected in the lymphoid tissues.,



Background

RAP1 GTPase activating protein(RAP1GAP) Homo sapiens This gene encodes a type of GTPase-activating-protein (GAP) that down-regulates the activity of the ras-related RAP1 protein. RAP1 acts as a molecular switch by cycling between an inactive GDP-bound form and an active GTP-bound form. The product of this gene, RAP1GAP, promotes the hydrolysis of bound GTP and hence returns RAP1 to the inactive state whereas other proteins, guanine nucleotide exchange factors (GEFs), act as RAP1 activators by facilitating the conversion of RAP1 from the GDP- to the GTP-bound form. In general, ras subfamily proteins, such as RAP1, play key roles in receptor-linked signaling pathways that control cell growth and differentiation. RAP1 plays a role in diverse processes such as cell proliferation, adhesion, differentiation, and embryogenesis. Alternative splicing results in multiple transcript variants encoding distinct proteins. [provided by RefSeq, Aug 2011],

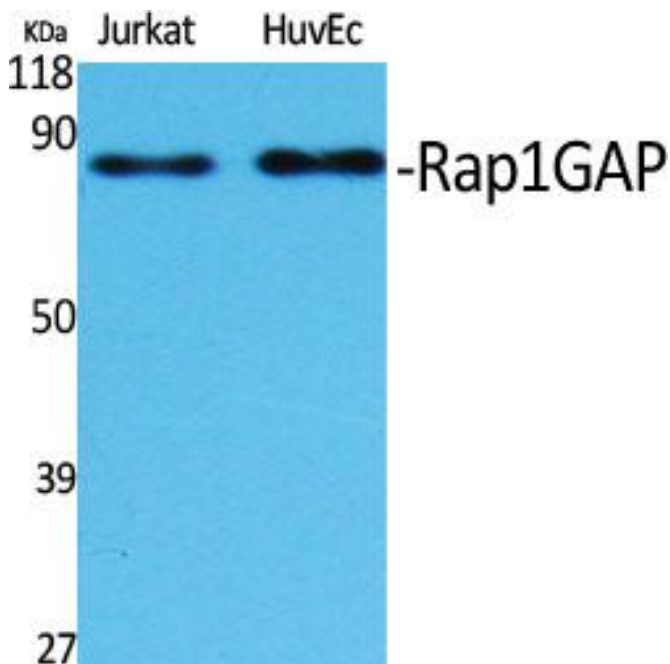
matters needing attention

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 Rap1GAP Monoclonal Antibody