

Rap1GAP Polyclonal Antibody

Catalog No :	YT4006
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	Rap1GAP
Fields :	>>Rap1 signaling pathway
Gene Name :	RAP1GAP
Protein Name :	Rap1 GTPase-activating protein 1
Human Gene Id :	5909
Human Swiss Prot No :	P47736
Immunogen :	Synthesized peptide derived from Rap1GAP . at AA range: 460-540
Specificity :	Rap1GAP Polyclonal Antibody detects endogenous levels of Rap1GAP 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 :	73kD

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],

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.,

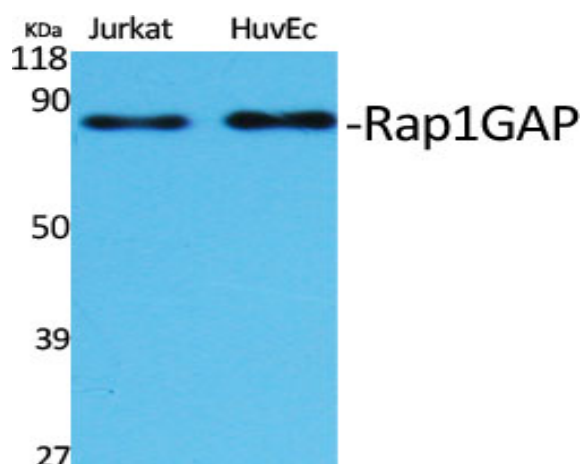
Subcellular Location :

Golgi apparatus membrane; Peripheral membrane protein.

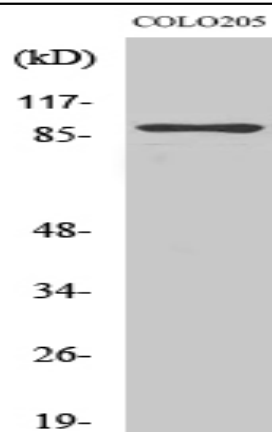
Expression :

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.

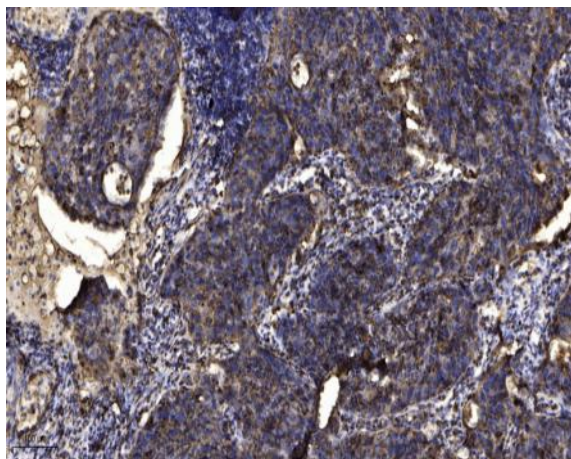
Products Images



Western Blot analysis of various cells using Rap1GAP Polyclonal Antibody



Western Blot analysis of COLO205 cells using Rap1GAP Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 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).