Anti-RAP1GAP Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015295

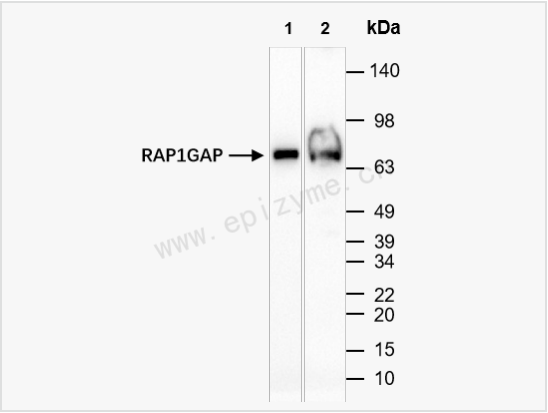
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	87S14F21
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human RAP1GAP
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-RAP1GAP Rabbit mAb [87S14F21] is for research use only and not for use in diagnostic or therapeutic procedures.

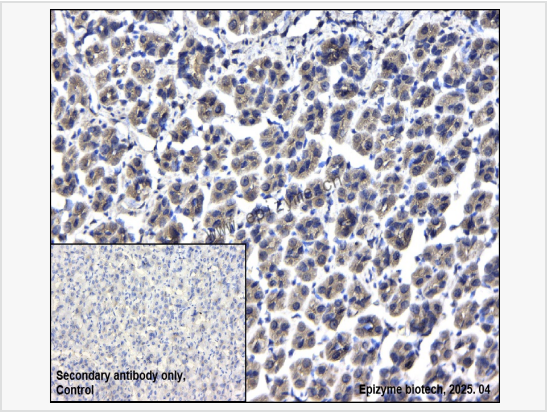
Protein Information

Synonyms	KIAA0474; Rap1 GTPase activating protein 1; RAP1 GTPase activating protein; Rap1 GTPase activating protein 1; RAP1GA1; Rap1ga1 protein; Rap1GAP; Rap1GAP1; RAP1GAPII; RAPGAP; RPGP1 HUMAN.
Calculated MW	Calculated MW: 73 kDa; Observed MW: 73 kDa
Uniprot ID	P47736
Gene ID	5909
Background	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]
Cellular Location	Golgi apparatus membrane.
Tissue Location	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.

Validation Images



Western Blot - Anti-RAP1GAP Rabbit mAb [87S14F21]
All lanes: R015295 at 1:1,000 dilution
Lane 1: Mouse brain whole tissue lysates
Lane 2: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 73 kDa
Observed band size: 73 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-RAP1GAP Rabbit mAb [87S14F21]
Sample: Paraformaldehyde-fixed, paraffin embedded rat stomach tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015295 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.