

For Research Use Only

# RAP1GAP Recombinant antibody

Catalog Number: 86011-2-RR



## Basic Information

### Catalog Number:

86011-2-RR

### Size:

100ul , Concentration: 1000 µg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5576

### GenBank Accession Number:

BC054490

### GeneID (NCBI):

5909

### UNIPROT ID:

P47736

### Full Name:

RAP1 GTPase activating protein

### Calculated MW:

73 kDa

### Observed MW:

85-95 kDa

### Purification Method:

Protein A purification

### CloneNo.:

250422E11

### Recommended Dilutions:

WB: 1:5000-1:50000

## Applications

### Tested Applications:

WB, ELISA

### Species Specificity:

human, mouse, rat

### Positive Controls:

WB : Jurkat cells, HeLa cells, SH-SY5Y cells, K-562 cells, mouse brain tissue, rat brain tissue

## Background Information

Rap1 GTPase-activating protein (Rap1GAP) is an important tumor suppressor. Rap1GAP was associated with the AMPK and NF-κB signaling pathways and that Rap1GAP inhibited AMPK/SIRT1 and activated the NF-κB signaling pathway in model animals. Rap1GAP was verified to regulate the AMPK SIRT1/NF-κB signaling pathway and exacerbate the damage to myocardial cells caused by ischemia and hypoxia (PMID: 38320624). Rap1GAP is involved in Ang II-induced cardiomyocyte hypertrophy through the regulation of autophagy (PMID: 33936386). Rap1GAP, which is the GTPase-activating protein of Rap1, can bind to Rap1, promote the transformation of GTP from its active to inactive form, and terminate signal transduction (PMID: 21295042).

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

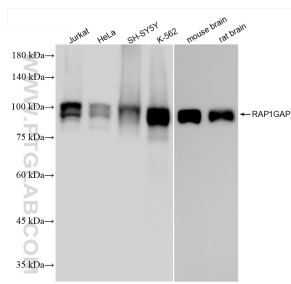
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86011-2-RR (RAP1GAP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.