

# RAP1GAP2 Rabbit pAb

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Catalog # AP57905

## Product Information

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| <b>Application</b>             | WB, IHC-P, IHC-F, IF                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Primary Accession</b>       | <a href="#">Q684P5</a>                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Reactivity</b>              | Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Predicted</b>               | Human, Rabbit                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Calculated MW</b>           | 80056                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human RAP1GAP2                                                                                                                                                                                                                                                                                                                                                   |
| <b>Epitope Specificity</b>     | 651-730/730                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Buffer</b>                  | Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.                                                                                                                                                                                                                                                                                                                                        |
| <b>SIMILARITY</b>              | Contains 1 RanBD1 domain.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                      |
| <b>Background Descriptions</b> | This gene encodes a GTPase-activating protein that activates the small guanine-nucleotide-binding protein Rap1 in platelets. The protein interacts with synaptotagmin-like protein 1 and Rab27 and regulates secretion of dense granules from platelets at sites of endothelial damage. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009] |

## Additional Information

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|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>            | 23108                                                                                                                                                                                           |
| <b>Other Names</b>        | Rap1 GTPase-activating protein 2, Rap1GAP2, GTPase-activating Rap/Ran-GAP domain-like protein 4, RAP1GAP2, GARNL4, KIAA1039, RAP1GA2                                                            |
| <b>Target/Specificity</b> | Cytoplasmic; perinuclear region.                                                                                                                                                                |
| <b>Dilution</b>           | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500                                                                                                                                      |
| <b>Storage</b>            | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

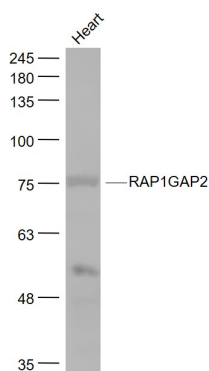
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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | RAP1GAP2                                                                                                                                            |
| <b>Synonyms</b>          | GARNL4, KIAA1039, RAP1GA2                                                                                                                           |
| <b>Function</b>          | GTPase activator for the nuclear Ras-related regulatory protein RAP-1A (KREV-1), converting it to the putatively inactive GDP- bound state.         |
| <b>Cellular Location</b> | Cytoplasm. Cytoplasm, perinuclear region                                                                                                            |
| <b>Tissue Location</b>   | Isoform 1 and isoform 2 are expressed in platelets with isoform 2 being the predominant form. Expressed in lymphocytes, heart, testis and pancreas. |

## Background

This gene encodes a GTPase-activating protein that activates the small guanine-nucleotide-binding protein Rap1 in platelets. The protein interacts with synaptotagmin-like protein 1 and Rab27 and regulates secretion of dense granules from platelets at sites of endothelial damage. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

## Images



### Sample:

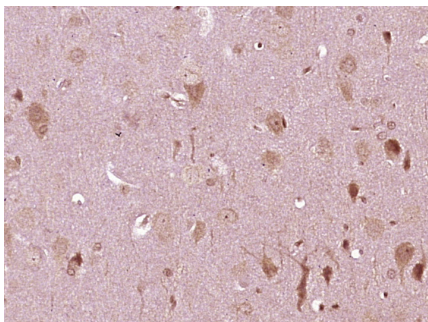
Heart (Mouse) Lysate at 40 ug

Primary: Anti- RAP1GAP2 (AP57905) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 80 kD

Observed band size: 76 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RAP1GAP2) Polyclonal Antibody, Unconjugated (AP57905) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.