

# RAP2B Rabbit pAb

Catalog # AP99959

## Product Information

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| <b>Application</b>                      | WB, IHC-P, IHC-F, IF, E                                                                                                                                                                                                                                                                                                                                                     |
| <b>Primary Accession</b>                | <a href="#">P61225</a>                                                                                                                                                                                                                                                                                                                                                      |
| <b>Other Accession</b>                  | <a href="#">P61225</a>                                                                                                                                                                                                                                                                                                                                                      |
| <b>Predicted</b>                        | Rat, Human, Mouse, Dog, Horse, Sheep                                                                                                                                                                                                                                                                                                                                        |
| <b>Host</b>                             | Rabbit                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Clonality</b>                        | Polyclonal                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Calculated MW</b>                    | 20504                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Physical State</b>                   | Liquid                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Immunogen</b>                        | KLH conjugated synthetic peptide derived from human RAP2B                                                                                                                                                                                                                                                                                                                   |
| <b>Epitope Specificity</b>              | 51-150/183                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Isotype</b>                          | IgG                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>                           | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                              |
| <b>Buffer</b>                           | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                           |
| <b>SIMILARITY</b>                       | Belongs to the small GTPase superfamily. Ras family.                                                                                                                                                                                                                                                                                                                        |
| <b>SUBUNIT</b>                          | Interacts with PLCE1. Interacts with SGSM1, SGSM2 and SGSM3. The GTP-bound form of RAP2B interacts with RUNDC3A                                                                                                                                                                                                                                                             |
| <b>Post-translational modifications</b> | Palmitoylated. Palmitoylation is required for association with recycling endosome membranes and activation of TNIK                                                                                                                                                                                                                                                          |
| <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>          | RAP2B belongs to a family of RAS-related GTP-binding proteins. RAP proteins share approximately 50% amino acid identity with the classical RAS proteins and have numerous structural features in common. However, at their 61st amino acid the glutamine in RAS proteins is replaced by threonine in RAP proteins. RAP2A interacts with phospholipase C, epsilon 1 (PLCE1). |

## Additional Information

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| <b>Gene ID</b>     | 5912                                                                                                                                                                                             |
| <b>Other Names</b> | 4021402C18Rik; RAP2B_HUMAN; RAP2B; 3.6.5.2; RAP2B_MOUSE; RAP2B, member of RAS oncogene family; Ras-related protein RAP-2B; small GTP binding protein; Ras family small GTP binding protein RAP2B |
| <b>Dilution</b>    | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000                                                                                                                    |
| <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>              | RAP2B                                                                                                                                                                                                                                                                                                                                                   |
| <b>Function</b>          | Small GTP-binding protein which cycles between a GDP-bound inactive and a GTP-bound active form. Involved in EGFR and CHRM3 signaling pathways through stimulation of PLCE1. May play a role in cytoskeletal rearrangements and regulate cell spreading through activation of the effector TNIK. May regulate membrane vesiculation in red blood cells. |
| <b>Cellular Location</b> | Recycling endosome membrane; Lipid-anchor; Cytoplasmic side.<br>Note=Associated with red blood cells- released vesicles                                                                                                                                                                                                                                 |
| <b>Tissue Location</b>   | Expressed in red blood cells (at protein level).                                                                                                                                                                                                                                                                                                        |

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