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# Calcineurin B Rabbit pAb

Catalog # AP97767

## Product Information

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| **Application** | WB, IHC-P, IHC-F, IF |
| **Primary Accession** | P63098 |
| **Other Accession** | P63098 |
| **Reactivity** | Human, Mouse |
| **Predicted** | Rat, Pig, Rabbit |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 19300 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human Calcineurin B/PP2B-B1 |
| **Epitope Specificity** | 31-130/170 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Belongs to the calcineurin regulatory subunit family. Contains 4 EF-hand domains. |
| **SUBUNIT** | Composed of a catalytic subunit (A) and a regulatory subunit (B). |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | In eukaryotes, the phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions including division, homeostasis and apoptosis. A group of proteins that are intimately involved in this process are the protein phosphatases. In general, the protein phosphatase (PP) holoenzyme is a trimeric complex composed of a regulatory subunit, a variable subunit and a catalytic subunit. Four major families of protein phosphatase catalytic subunit have been identified, designated PP1, PP2A, PP2B and PP2C. An additional protein phosphatase catalytic subunit, PPX (also known as PP4), is a putative member of a novel PP family. The PP2B family comprises subfamily members PP2B-A alpha, PP2B-A Beta and PP2B-A Gamma. Two additional regulatory subunits been identified, designated PP2B-B1 and PP2B-B2. |

## Additional Information

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| **Gene ID** | 5534 |
| **Other Names** | CALNB1; CNB; CNB1; CaNB1; MCIP1; CANB1_HUMAN; PPP3R1; Protein phosphatase 2B regulatory subunit 1; Protein phosphatase 3 regulatory subunit B alpha isoform 1; CNA2; CANB1_MOUSE; CANB1_RAT; protein phosphatase 3 regulatory subunit B, alpha; protein phosphatase 3 (formerly 2B), regulatory subunit B (19kD), alpha isoform (calcineurin B, type I); protein phosphatase 3 (formerly 2B), regulatory subunit B, 19kDa, alpha isoform (calcineurin B, type I); protein phosphatase 3 (formerly 2B), regulatory subunit |

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| | B, alpha isoform; protein phosphatase 3, regulatory subunit B, alpha; calcineurin B, type I (19kDa); protein phosphatase 2B regulatory subunit B alpha |
| **Dilution** | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 |
| **Storage** | 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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| **Name** | PPP3R1 |
| **Synonyms** | CNA2, CNB |
| **Function** | Regulatory subunit of calcineurin, a calcium-dependent, calmodulin stimulated protein phosphatase. Confers calcium sensitivity. |
| **Cellular Location** | Cytoplasm, cytosol {ECO:0000250\|UniProtKB:Q63810}. Cell membrane {ECO:0000250\|UniProtKB:Q63810}. Cell membrane, sarcolemma {ECO:0000250\|UniProtKB:Q63810}. Cell membrane; Lipid-anchor. Note=Translocates from the cytosol to the sarcolemma in a CIB1-dependent manner during cardiomyocyte hypertrophy. {ECO:0000250\|UniProtKB:Q63810} |

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