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phospho-Calcineurin B (Tyr106) Rabbit pAb

Catalog # AP98153

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P63098
Other Accession	P63098
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19300
Physical State	Liquid
Immunogen	KLH conjugated synthesised phosphopeptide derived from human Calcineurin B around the phosphorylation site of Tyr106
Epitope Specificity	DG(p-Y)IS
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

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

	B, alpha isoform; protein phosphatase 3, regulatory subunit B, alpha; calcineurin B, type I (19kDa); protein phosphatase 2B regulatory subunit B alpha; PPP3R1 | Calcineurin B (phospho-Y106); p-Calcineurin B; phospho-Calcineurin B; p-PPP3R1; PPP3R1 | Calcineurin B (phospho-Tyr106)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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

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'.