

Rabbit Anti-Calcineurin B/APC Conjugated antibody

SL11246R-APC

Product Name	Anti-Calcineurin B/APC
Chinese Name	APC 标记的钙调磷酸酶 B 亚基 B1 抗体
Alias	Calcineurin subunit B type 1; PP2B-B1; CALNB1; CANB1_HUMAN; Cna2; CNB; CNB1; OTTHUMP00000201960; OTTHUMP00000201961; Ppp3r1; PPP3R1 protein phosphatase 3 (formerly 2B), regulatory subunit B, alpha isoform; alpha isoform (calcineurin B, type I); calcineurin B, type I (19kDa); protein phosphatase3 (formerly2B), regulatory subunit B, alpha isoform antibody Protein phosphatase 2B regulatory subunit 1; Protein phosphatase 2B regulatory subunit B alpha; protein phosphatase 3 (formerly 2B), regulatory subunit B, 19kDa, alpha isoform (calcineurin B, type I); Protein phosphatase 3 regulatory subunit B alpha; Protein phosphatase 3 regulatory subunit B alpha isoform 1.
Research Area	Signal transduction transcriptional regulatory factor Kinases and Phosphatases
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Rat,Pig,Cow,Rabbit)
Applications	ICC=1:50-200 IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	19kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Calcineurin B/PP2B-B1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and

for greater than a year when kept at -20°C . When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at $2-4^{\circ}\text{C}$.

background:

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.

Function:

Regulatory subunit of calcineurin, a calcium-dependent, calmodulin stimulated protein phosphatase. Confers calcium sensitivity.

Subunit:

Composed of a catalytic subunit (A) and a regulatory subunit (B).

Similarity:

Belongs to the calcineurin regulatory subunit family. Contains 4 EF-hand domains.

Database links:

[Entrez Gene: 5534](#) Human

[Entrez Gene: 19058](#) Mouse

[Entrez Gene: 29748](#) Rat

[Omim: 601302](#) Human

[SwissProt: P63098](#) Human

[SwissProt: Q63810](#) Mouse

[SwissProt: P63100](#) Rat

Product Detail



[Unigene: 280604](#) Human

[Unigene: 41840](#) Mouse

[Unigene: 42903](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.