

Anti-Calcineurin Alpha Antibody (Monoclonal, CN-A1)

Catalog # ABO10403

Product Information

Application	WB, IHC-P
Primary Accession	P63100
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human, Rat
Clonality	Monoclonal
Format	Liquid
Description	Mouse IgG monoclonal antibody for Calcineurin alpha, protein phosphatase 3, regulatory subunit B, alpha (PPP3R1) detection. Tested with WB, IHC-P in Human;bovine;rat. No cross reactivity with other proteins.

Additional Information

Gene ID	29748
Other Names	Calcineurin subunit B type 1, Protein phosphatase 2B regulatory subunit 1, Protein phosphatase 3 regulatory subunit B alpha isoform 1, Ppp3r1, Cna2, Cnb
Calculated MW	19300
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, bovine, rat, By Heat Western blot, 0.25-0.5 µg/ml, Human, bovine, rat
Subcellular Localization	Cytoplasm, cytosol . Cell membrane ; Lipid-anchor . Cell membrane, sarcolemma. Translocates from the cytosol to the sarcolemma in a CIB1-dependent manner during cardiomyocytes hypertrophy. .
Tissue Specificity	Isoform 2 is testis specific. .
Source	Eukaryota
Protein Name	Calcineurin subunit B type 1
Contents	Each vial contains 50% glycerol, 1.2% Sodium acetate, 1% BSA, 0.02% NaN ₃ .
Clone Names	CN-A1
Immunogen	Bovine brain calcineurin.
Purification	Ascites

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year, at 4 °C for one month. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the calcineurin regulatory subunit family.

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 {ECO:0000250 UniProtKB:P63098}; Lipid-anchor {ECO:0000250 UniProtKB:P63098}. Note=Translocates from the cytosol to the sarcolemma in a CIB1-dependent manner during cardiomyocyte hypertrophy. {ECO:0000250 UniProtKB:Q63810}
Tissue Location	Isoform 2 is testis specific.

Background

Calcineurin, the Ca(2+)/calmodulin-regulated protein phosphatase, first detected in skeletal muscle and brain, has been found in all cells from yeast to mammals. Calcineurin A alpha(PPP3CA), is located on human chromosomes 4, Chromosomal mapping of the human genes for the calmodulin-dependent protein phosphatase(calcineurin) catalytic subunit. Calcineurin regulates bone formation by the osteoblast.

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