

Anti-Calcineurin Alpha Antibody (Monoclonal, CN-A1)
Catalog # ABO10403**Specification****Anti-Calcineurin Alpha Antibody (Monoclonal, CN-A1) - 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.

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

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. .

Protein Name

Calcineurin subunit B type 1

Contents

Each vial contains 50% glycerol, 1.2% Sodium acetate, 1% BSA, 0.02% NaN₃.

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.

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

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

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Calcineurin Alpha Antibody (Monoclonal, CN-A1) - Images**Anti-Calcineurin Alpha Antibody (Monoclonal, CN-A1) - 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.