

Calcineurin A Rabbit mAb

Catalog No: #49514



Package Size: #49514-1 50ul #49514-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

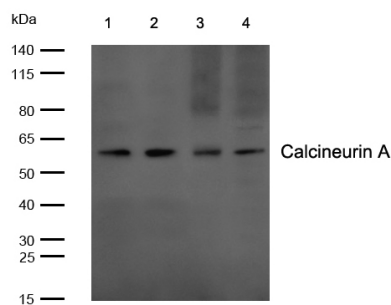
Description

Product Name	Calcineurin A Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JA64-11
Purification	ProA affinity purified
Applications	WB, FC, IHC, ICC/IF
Species Reactivity	Human; Mouse; Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Alpha isoform formerly PPP2B antibody Calcineurin A alpha antibody Calcineurin A1 antibody CalcineurinA antibody Calmodulin dependent calcineurin A subunit alpha isoform antibody Calmodulin-dependent calcineurin A subunit alpha isoform antibody CALN antibody CALNA 1 antibody CALNA antibody CALNA1 antibody CAM PRP catalytic subunit antibody CAM-PRP catalytic subunit antibody CCN 1 antibody CCN1 antibody CNA 1 antibody CNA alpha antibody CNA antibody CNA1 antibody PP2BA_HUMAN antibody PPP2B antibody Ppp3ca antibody Protein phosphatase 2B catalytic subunit antibody Protein phosphatase 3 (formerly 2B) catalytic subunit alpha isoform antibody Protein phosphatase 3 catalytic subunit alpha isoform PPP3CA antibody Protein phosphatase 3 catalytic subunit alpha isozyme antibody Serine/threonine protein phosphatase 2B catalytic subunit alpha isoform antibody Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform antibody
Accession No.	Swiss-Prot#: Q08209
Calculated MW	59 kDa
SDS-PAGE MW	59 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:500-1:1,000 FC: 1:50-1:100

Images



All lanes: Calcineurin A Rabbit mAb at 1/1k dilution

Lane 1 : 293 whole cell lysates Lane 2 : A431 whole cell lysates Lane 3 : Mouse lung lysates Lane 4 : Rat brain lysates

Lysates/proteins at 20 µg per lane.

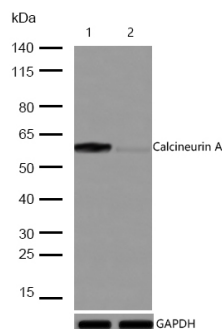
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

Predicted band size: 59 kDa

Observed band size: 59 kDa

Exposure time: 5 seconds

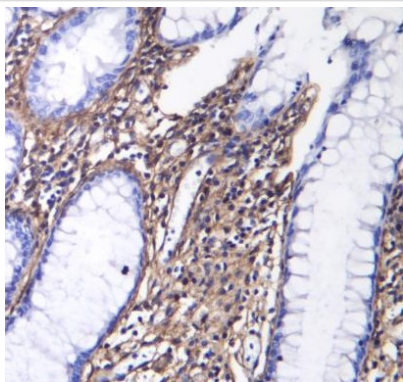


All lanes: Calcineurin A Rabbit mAb at 1/1k dilution

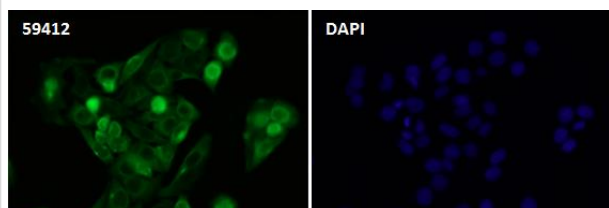
Lane 1 : Wild-type HeLa cell lysate

Lane 2 : Calcineurin A Rabbit mAb knockdown HeLa cell lysate

Lysates/proteins at 20 µg per lane.



Formalin-fixed, paraffin-embedded human colon tissue stained for Calcineurin A using 49514 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence Calcineurin A antibody (49514) ICC/IF staining of Calcineurin A in HeLa cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 49514 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500.

Nuclei were counterstained with DAPI.

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 α , PP2B-A β and PP2B-A γ . Two additional regulatory subunits been identified, designated PP2B-B1 and PP2B-B2.

References

1. Turdi S et al. Interaction between maternal and postnatal high fat diet leads to a greater risk of myocardial dysfunction in offspring via enhanced lipotoxicity, IRS-1 serine phosphorylation and mitochondrial defects. J Mol Cell Cardiol 55:117-29 (2013).
2. Thoms KM et al. Cyclosporin A, but not everolimus, inhibits DNA repair mediated by calcineurin: implications for tumorigenesis under immunosuppression. Exp Dermatol 20:232-6 (2011).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.