Product Datasheet

Calcineurin A Rabbit mAb

Catalog No: #52730

Package Size: #52730-1 50ul #52730-2 100ul

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

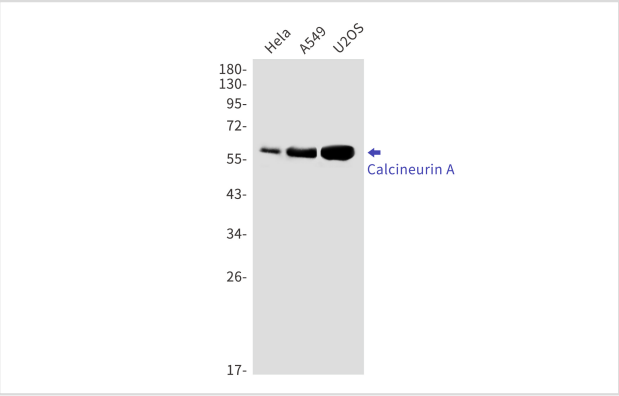
Description

Product Name	Calcineurin A Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S01-6F5
Isotype	IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human Calcineurin A
Conjugates	Unconjugated
Modification	Unmodification
Other Names	CALN; CCN1; CNA1; CALNA; IECEE; PPP2B; ACCIID; CALNA1; IECEE1
Accession No.	Swiss-Prot:Q08209GeneID:5530
Uniprot	Q08209
GeneID	5530
Calculated MW	Calculated MW:59 kDa,Observed MW:59 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Application Details

WB: 1/2000

Images



Western blot detection of Calcineurin A in Hela,A549,U2OS cell lysates using Calcineurin A Rabbit mAb(1:1000 diluted).Predicted band size:59kDa.Observed band size:59kDa.

Background

Calcium-dependent, calmodulin-stimulated protein phosphatase which plays an essential role in the transduction of intracellular Ca2+-mediated signals (PubMed:15671020, PubMed:18838687, PubMed:19154138, PubMed:23468591).

Many of the substrates contain a PxIxIT motif and/or a LxVP motif (PubMed:17498738, PubMed:17502104, PubMed:23468591, PubMed:27974827, PubMed:22343722).

In response to increased Ca2+ levels, dephosphorylates and activates phosphatase SSH1 which results in cofilin dephosphorylation (PubMed:15671020).

In response to increased Ca2+ levels following mitochondrial depolarization, dephosphorylates DNM1L inducing DNM1L translocation to the mitochondrion (PubMed:18838687).

Dephosphorylates heat shock protein HSPB1 (By similarity).

Dephosphorylates and activates transcription factor NFATC1 (PubMed:19154138).

In response to increased Ca2+ levels, regulates NFAT-mediated transcription probably by dephosphorylating NFAT and promoting its nuclear translocation (PubMed:26248042).

Dephosphorylates and inactivates transcription factor ELK1 (PubMed:19154138).

Dephosphorylates DARPP32 (PubMed:19154138).

May dephosphorylate CRTC2 at 'Ser-171' resulting in CRTC2 dissociation from 14-3-3 proteins (PubMed:30611118).

Dephosphorylates transcription factor TFEB at 'Ser-211' following Coxsackievirus B3 infection, promoting nuclear translocation (PubMed:33691586).

Note: This product is for in vitro research use only