

## Calcineurin A Rabbit mAb

Catalog No: #52730

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

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## Description

|                       |  |
|-----------------------|--|
| Product Name          | Calcineurin A Rabbit mAb   |
| Clone No.             | S01-6F5  |
| Isotype               | IgG  |
| Purification          | Affinity Purified  |
| Applications          | WB ICC/IF FC   |
| 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   |
| Calculated MW         | Calculated MW:59 kDa,Observed MW:59 kDa  |
| Formulation           | 50nM 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. |

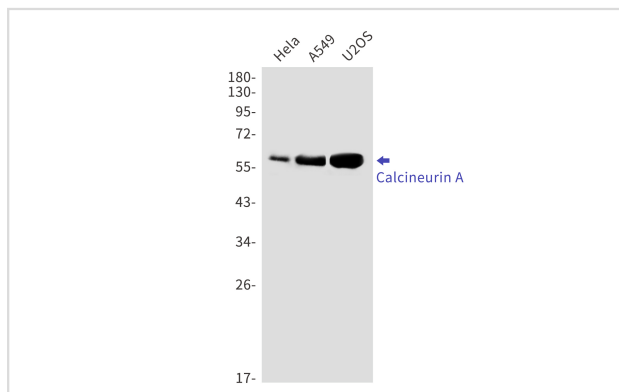
## Application Details

WB 1:500~1:2000

ICC/IF 1:50~1:200

FC 1:50

## 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 Ca<sup>2+</sup>-mediated signals (PubMed:15671020, PubMed:18838687, PubMed:19154138, PubMed:23468591). Many of the substrates contain a PxlIT motif and/or a LxVP motif (PubMed:17498738, PubMed:17502104, PubMed:23468591, PubMed:27974827, PubMed:22343722). In response to increased Ca<sup>2+</sup>

levels, dephosphorylates and activates phosphatase SSH1 which results in cofilin dephosphorylation (PubMed:15671020). In response to increased Ca<sup>2+</sup> 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 Ca<sup>2+</sup> 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).

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