

Product Name: Calcineurin A (15E13) Rabbit Monoclonal Antibody
Catalog #: AMRe07849

Summary

Production Name	Calcineurin A (15E13) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,FC,IP
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type
Buffer	preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	PPP3CA
Alternative Names	Calcineurin A1; CalcineurinA; CALN; CALNA 1; CALNA; CALNA1; CAM PRP; CNA alpha; CCN1;
Gene ID	5530.0
SwissProt ID	Q08209.

Application

Dilution Ratio	WB 1:2000, FCM 1:20, IP 1:20
Molecular Weight	59kDa

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Background

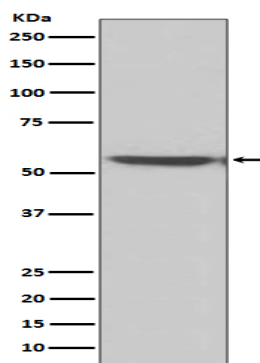
Calcineurin, also known as protein phosphatase 2B (PP2B), is a calmodulin-dependent, calcium-activated, serine/threonine protein phosphatase composed of a catalytic subunit (calcineurin A) and a tightly bound regulatory subunit (calcineurin B). Calcium-dependent, calmodulin-stimulated protein phosphatase. This subunit may have a role in the calmodulin activation of calcineurin. Dephosphorylates DNM1L, HSPB1 and SSH1. Calcium-dependent, calmodulin-stimulated protein phosphatase which plays an essential role in the transduction of intracellular Ca^{2+} -mediated signals (PubMed: [15671020](http://www.uniprot.org/citations/15671020), PubMed: [18838687](http://www.uniprot.org/citations/18838687), PubMed: [19154138](http://www.uniprot.org/citations/19154138), PubMed: [23468591](http://www.uniprot.org/citations/23468591)). Many of the substrates contain a PxlIT motif and/or a LxVP motif (PubMed: [17498738](http://www.uniprot.org/citations/17498738), PubMed: [17502104](http://www.uniprot.org/citations/17502104), PubMed: [23468591](http://www.uniprot.org/citations/23468591), PubMed: [27974827](http://www.uniprot.org/citations/27974827), PubMed: [22343722](http://www.uniprot.org/citations/22343722)). In response to increased Ca^{2+} levels, dephosphorylates and activates phosphatase SSH1 which results in cofilin dephosphorylation (PubMed: [15671020](http://www.uniprot.org/citations/15671020)). In response to increased Ca^{2+} levels following mitochondrial depolarization, dephosphorylates DNM1L inducing DNM1L translocation to the mitochondrion (PubMed: [18838687](http://www.uniprot.org/citations/18838687)). Dephosphorylates heat shock protein HSPB1 (By similarity). Dephosphorylates and activates transcription factor NFATC1 (PubMed: [19154138](http://www.uniprot.org/citations/19154138)). In response to increased Ca^{2+} levels, regulates NFAT-mediated transcription probably by dephosphorylating NFAT and promoting its nuclear translocation (PubMed: [26248042](http://www.uniprot.org/citations/26248042)). Dephosphorylates and inactivates transcription factor ELK1 (PubMed: [19154138](http://www.uniprot.org/citations/19154138)). Dephosphorylates DARPP32 (PubMed: [19154138](http://www.uniprot.org/citations/19154138)). May dephosphorylate CRTC2 at 'Ser-171' resulting in CRTC2 dissociation from 14-3-3 proteins (PubMed: [30611118](http://www.uniprot.org/citations/30611118)). Dephosphorylates transcription factor TFEB at 'Ser-211' following Coxsackievirus B3 infection, promoting nuclear translocation (PubMed: [33691586](http://www.uniprot.org/citations/33691586)).

Research Area

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Image Data



Western blot analysis of Calcineurin A expression in A431 cell lysate.

Note

For research use only.