

产品名称: Calcineurin A (15E13) Rabbit Monoclonal Antibody
产品货号: AMRe07849



产品概述 (Summary)

产品名称 (Production Name)	Calcineurin A (15E13) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,FC,IP
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	PPP3CA
别名 (Alternative Names)	Calcineurin A1; CalcineurinA; CALN; CALNA 1; CALNA; CALNA1; CAM PRP; CNA alpha; CCN1;
基因 ID (Gene ID)	5530.0
蛋白 ID (SwissProt ID)	Q08209.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:2000,FC 1:20-1:50,IP 1:20-1:50
蛋白分子量 (Molecular Weight)	59kDa

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研究背景 (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)).

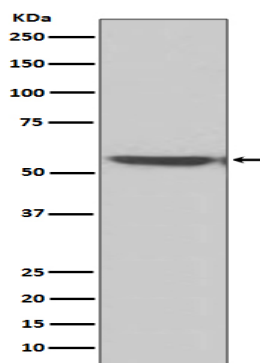
研究领域 (Research Area)

Immunology

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图片 (Image Data)



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

注意事项 (Note)

For research use only .