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anti-CAN antibody (AA 247-449)

4 Images



Publications



Go to Product page

Overview

Quantity:	50 μg	
Target:	CAN	
Binding Specificity:	AA 247-449	
Reactivity:	Human, Mouse, Rat, Chicken, Frog	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This CAN antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)	

Product Details

Immunogen:	Human Calcineurin aa. 247-449
Clone:	29-Calcineurin
Isotype:	lgG2a
Cross-Reactivity:	Rat (Rattus), Mouse (Murine), Chicken, Frog
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
	2. Please refer to us for technical protocols.
	3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide
	compounds in running water before discarding to avoid accumulation of potentially explosive
	deposits in plumbing.
	4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

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The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	CAN
Alternative Name:	Calcineurin (CAN Products)
Background:	Calcineurin is a Ca2+/calmodulin-dependent protein phosphatase. The active enzyme is a
	heterodimer of a large calmodulin-binding catalytic subunit A (61 kDa) and a smaller Ca2+
	binding subunit B (19 kDa). Regions corresponding to the calmodulin-binding site, an
	autoinhibitory domain, and a putative subunit B binding site have been identified within the large
	subunit A. The activity of calcineurin is sensitive to immunosuppressants such as cyclosporin A
	(CsA) and tacrolimus (FK506). The study of FK506-mediated inhibition of nitric oxide formation
	has revealed that nitric oxide synthase (NOS) is a calcineurin substrate. Calcineurin
	dephosphorylates NOS and enhances its catalytic activity. Therefore, Calcineurin is an essential
	mediator for efficient T cell antigen receptor (TCR)-mediated T cell activation.
Molecular Weight:	61 kDa

Application Details

Storage Comment:

Comment:	Related Products: ABIN968545, ABIN967389
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	250 μg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Store undiluted at -20°C.

Product cited in:

Vega, Rothermel, Weinheimer, Kovacs, Naseem, Bassel-Duby, Williams, Olson: "Dual roles of modulatory calcineurin-interacting protein 1 in cardiac hypertrophy." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 100, Issue 2, pp. 669-74, (2003) (PubMed).

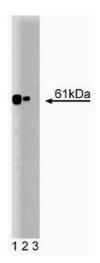
Jicha, Weaver, Lane, Vianna, Kress, Rockwood, Davies: "cAMP-dependent protein kinase phosphorylations on tau in Alzheimer's disease." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 19, Issue 17, pp. 7486-94, (1999) (PubMed).

Liang, Venema, Wang, Ju, Venema, Marrero: "Regulation of angiotensin II-induced phosphorylation of STAT3 in vascular smooth muscle cells." in: **The Journal of biological chemistry**, Vol. 274, Issue 28, pp. 19846-51, (1999) (PubMed).

Sík, Hájos, Gulácsi, Mody, Freund: "The absence of a major Ca2+ signaling pathway in GABAergic neurons of the hippocampus." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 95, Issue 6, pp. 3245-50, (1998) (PubMed).

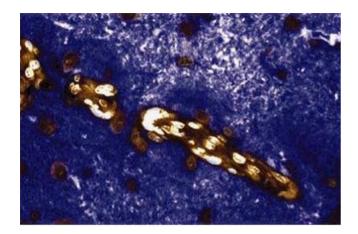
Verin, Cooke, Herenyiova, Patterson, Garcia: "Role of Ca2+/calmodulin-dependent phosphatase 2B in thrombin-induced endothelial cell contractile responses." in: **The American journal of physiology**, Vol. 275, Issue 4 Pt 1, pp. L788-99, (1998) (PubMed).

Images



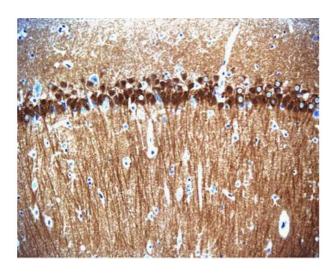
Western Blotting

Image 1. Western blot analysis of Calcineurin on a rat cerebrum lysate. Lane 1: 1:250, lane 2: 1:500, lane 1: 1:1000 dilution of the mouse anti-Calcineurin antibody.



Immunohistochemistry

Image 2. Immunohistochemical staining of a rabbit brain section.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemical staining of pyrimidal cells in the rat hippocampus, formalin-fixed paraffin-embedded tissue section with no pre-treatment (20X magnification).

Please check the product details page for more images. Overall 4 images are available for ABIN967861.