Datasheet for ABIN2481989

anti-Calcineurin A antibody (AA 264-283) (PE)

4 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	Calcineurin A (CAN)
Binding Specificity:	AA 264-283
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calcineurin A antibody is conjugated to PE
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Human Calcineurin A peptide (AA 264-283)
Specificity:	Detects ~61 kDa.
Cross-Reactivity:	Dog, Human, Mouse, Rabbit, Rat
Purification:	Peptide Affinity Purified

Target Details

Target:	Calcineurin A (CAN)
Alternative Name:	Calcineurin A (CAN Products)
Background:	Calcineurin is a heterodimeric phosphatase protein, also known as calcium-dependent serine-

Target Details

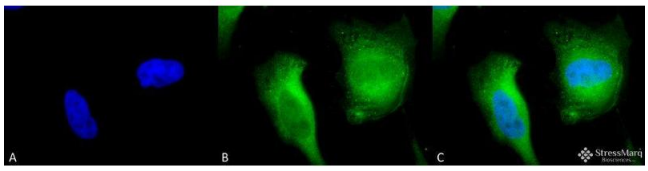
	threonine phosphatase. The structure consists of a catalytic subunit alpha, Calcineurin A (57-59KDa) the active site and a Ca2+ binding unit, Calcineurin B (19-20KDa) the regulatory subunit(1). Calcineurin plays a key role in the T-cell response growth and differentiation mechanism, regulating the activation of the Nuclear factor of activated T-cells (NFATc) which are important in the expression of IL-2 genes. Calcineurin has been the target of inhibitors, the novel and structural immune-suppressants antifungal drugs(2). Genetic studies in yeast and fungi established the molecular basis of the inhibition mechanism by cyclosporine A and FK506 (3).
Gene ID:	5530
UniProt:	Q08209

Application Details

Application Notes:	• WB (1:1000) • ICC/IF (1:120) • IHC (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2481989 was sufficient for detection of Calcineurin A in 20 µg of Heat shock Hela lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

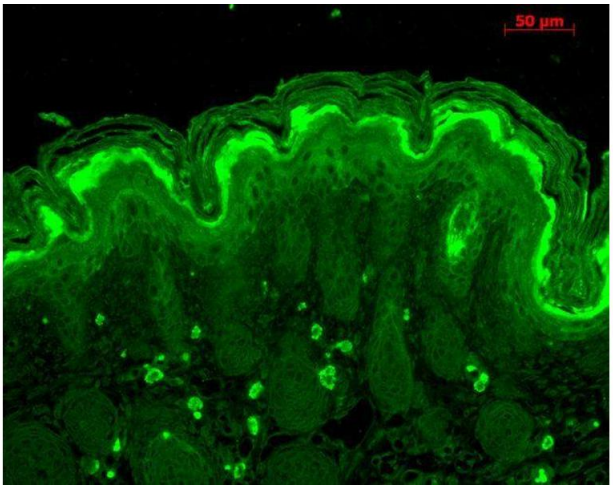
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
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:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



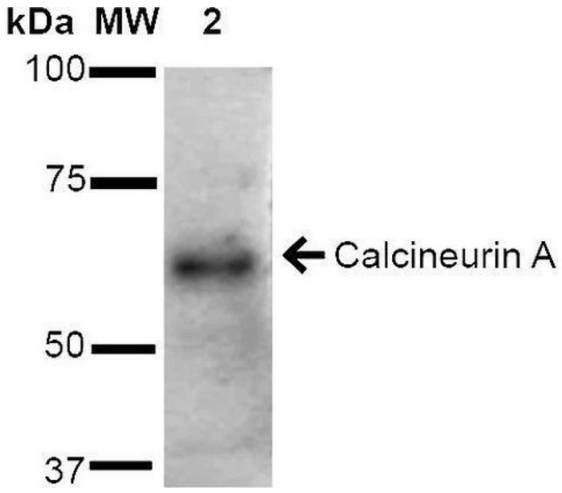
Immunofluorescence (fixed cells)

Image 1. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Calcineurin A Polyclonal Antibody . Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-Calcineurin A Polyclonal Antibody at 1:120 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cell membrane. Cytoplasm. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-Calcineurin A Antibody. (C) Composite.



Immunohistochemistry

Image 2. Immunohistochemistry analysis using Rabbit Anti-Calcineurin A Polyclonal Antibody . Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative Solution. Primary Antibody: Rabbit Anti-Calcineurin A Polyclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:50 for 1 hour at RT. Localization: General epidermis.



Western Blotting

Image 3. Western blot analysis of Rat Brain cell lysates showing detection of ~61 kDa Calcineurin A protein using Rabbit Anti-Calcineurin A Polyclonal Antibody . Lane 1: Molecular Weight Ladder (MW). Lane 2: Rat Brain cell lysates. Load: 15 µg. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-Calcineurin A Polyclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Rabbit IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 5 min at RT. Predicted/Observed Size: ~61 kDa.

Please check the product details page for more images. Overall 4 images are available for ABIN2481989.