

Datasheet for ABIN6940928
anti-CALB1 antibody (AA 7-96)



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2 Images

Overview

Quantity:	100 µg
Target:	CALB1
Binding Specificity:	AA 7-96
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CALB1 antibody is un-conjugated
Application:	ELISA, Coating (Coat)

Product Details

Immunogen:	Recombinant fragment (around aa 7-96) of human CALB1 protein (exact sequence is proprietary)
Clone:	CALB1-2364
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	CALB1
Alternative Name:	CALB1 (CALB1 Products)
Background:	The family of EF-hand type Ca ²⁺ -binding proteins includes Calbindin D28K, Calbindin D9K, S-

Target Details

100 (also designated oncomodulin). Calbindin D28K, also known as calbindin, CALB1, D-28K or vitamin D-dependent calcium-binding protein, is a 261-amino acid protein with 6 EF-hand domains, 4 of which are active calcium-binding domains. Expressed in brain, ovary, uterus, testis, pancreas, liver, kidney and intestine, Calbindin D28K acts as a calcium-buffering agent and alters the activity of the plasma membrane ATPase. In neuronal cells, Calbindin D28K modulates calcium channel activity, calcium transients and intrinsic neuronal firing activity. Also, Calbindin D28K has been implicated to play a role in apoptosis and microtubule function.

Molecular Weight: 52kDa

Gene ID: 793

UniProt: [P05937](#)

Application Details

Application Notes: Positive Control: 293T or HepG2 cells. Prostate, Lung, Pancreas, Kidney and Liver.
Known Application: ELISA (For coating, order antibody without BSA),Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

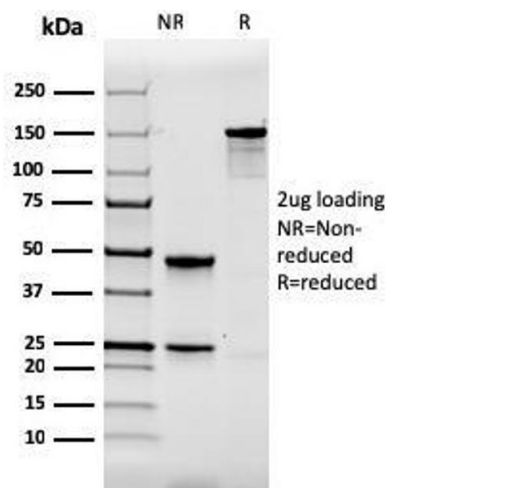
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified Calbindin 1 Mouse Monoclonal Antibody (CALB1/2364). Confirmation of Integrity and Purity of Antibody.

Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Calbindin Mouse Monoclonal Antibody (CALB1/2364) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.

