Datasheet for ABIN6940930

anti-CALB1 antibody (AA 7-96)

4 Images

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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:	Immunohistochemistry (IHC), ELISA, Coating (Coat), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment (around aa 7-96) of human CALB1 protein (exact sequence is proprietary)
Clone:	CALB1-3333
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

Target Details

Target:	CALB1
Alternative Name:	CALB1 (CALB1 Products)
Background:	The family of EF-hand type Ca2+-binding proteins includes Calbindin D28K, Calbindin D9K, S-

Target Details

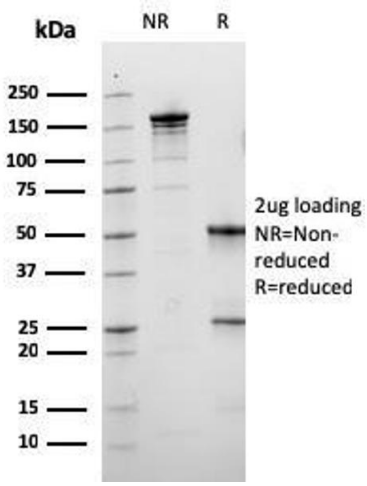
	100 and , Calgranulin A (also designated MRP8), Calgranulin B (also designated MRP14), Calgranulin C and the Parvalbumin family members, including Parvalbumin and Parvalbumin (also designated oncomodulin). Calbindin D28K, also known as calbindin, CALB1, D-28K or vitamin D-dependent calcium-binding protein, 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),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

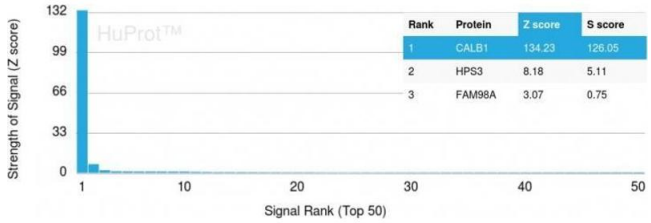
Handling

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

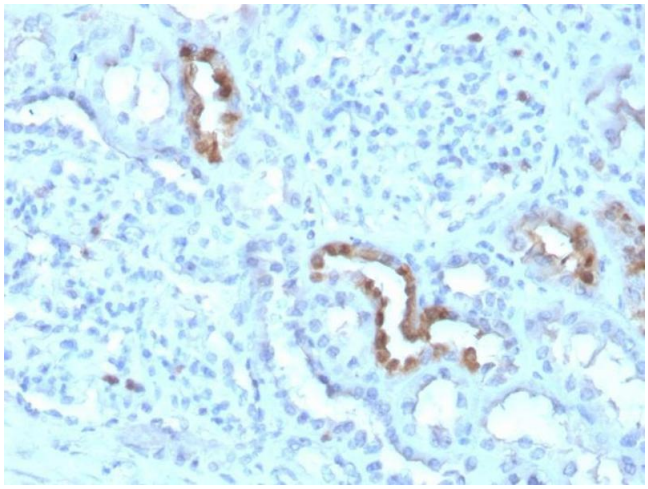
Image 1. SDS-PAGE Analysis Purified Calbindin 1 Mouse Monoclonal Antibody (CALB1/3333). Confirmation of Purity and Integrity of Antibody.



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Calbindin Mouse Monoclonal Antibody (CALB1/3333) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb 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 MAb to protein X is equal to 29.

Images



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Kidney stained with Calbindin 1 Mouse Monoclonal Antibody (CALB1/3333).

Please check the product details page for more images. Overall 4 images are available for ABIN6940930.