

Mouse anti-Human Calbindin 1 (CALB1) Monoclonal Antibody | anti-CALB1 antibody

Calbindin 1 (CALB1)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215262	Mouse	Human	Immunohistochemistry, ELISA

PRODUCT SYNONYMS

Calbindin 1 (CALB1); Monoclonal Antibody; avian-type; CAB27; CALB 1; CALB; CALB1; CALB1_HUMAN; Calbindin 1 28kDa; Calbindin; Calbindin D28; D 28K; D-28K; D28K; OTTHUMP00000166027; OTTHUMP00000225441; RTVL H protein; Vitamin D dependent calcium binding protein; Vitamin D dependent calcium binding protein avian type; Vitamin D-dependent calcium-binding protein; anti-CALB1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	CALB1/3333
Specificity	The family of EF-hand type Ca ²⁺ -binding proteins includes Calbindin D28K, Calbindin D9K, S-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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	261
Applicable Applications for anti-CALB1 antibody	IHC (Immunohistochemistry), ELISA
Positive Control	293T or HepG2 cells. Prostate, Lung, Pancreas, Kidney and Liver.
Immunogen	Recombinant fragment (around aa 7-96) of human CALB1 protein (exact sequence is proprietary)
Cellular Localization	Nuclear and Cytoplasmic
Hu-chromosome Location	8q21.3
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

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 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 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.



SDS-PAGE

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



IHC (Immunohistochemistry)

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



IHC (Immunohistochemistry)

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

ADDITIONAL INFORMATION

References	Parmentier, M., et al. 1989. Genomics 4: 309-319.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4826655
NCBI GeneID	793
NCBI Accession #	NP_004920.1
NCBI GenBank Nucleotide #	NP_004920.1
UniProt Accession #	P05937
Molecular Weight	52kDa
NCBI Official Full Name	calbindin isoform 1
NCBI Official Synonym Full Names	calbindin 1
NCBI Official Symbol	CALB1
NCBI Official Synonym Symbols	CALB; D-28K
NCBI Protein Information	calbindin
UniProt Protein Name	Calbindin
UniProt Gene Name	CALB1
UniProt Synonym Gene Names	CAB27
UniProt Entry Name	CALB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

