

Rabbit Calbindin/CALB1 Polyclonal Antibody | anti-CALB1 antibody

Anti-Calbindin/CALB1 Antibody

CATALOG # AAA124947	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
-------------------------------	-----------------------	--	--

PRODUCT SYNONYMS

Calbindin/CALB1; Polyclonal Antibody; Anti-Calbindin/CALB1 Antibody; Calbindin; Calbindin D28; D-28K; Vitamin D-dependent calcium-binding protein; avian-type; CALB1; CAB27; Calbindin 1; 28kDa; anti-CALB1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	204
Applicable Applications for anti-CALB1 antibody	ELISA (Direct ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Calbindin recombinant protein (Position: A2-N261).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Figure 3. IHC analysis of Calbindin using anti-Calbindin antibody. Calbindin was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Calbindin antibody. Calbindin was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Calbindin antibody. Calbindin was detected in paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Calbindin Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Calbindin using anti-Calbindin antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: rat kidney tissue lysates, Lane 3: mouse brain tissue lysates, Lane 4: mouse kidney tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Calbindin antigen affinity purified polyclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Calbindin at approximately 28KD. The expected band size for Calbindin is at 30KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CALB1 antibody	Description: Rabbit IgG polyclonal antibody for Calbindin detection. Tested with WB, IHC-P, Direct ELISA in Human; Mouse; Rat. Background: Calbindin is a calcium-binding protein belonging to the troponin C superfamily. And it mapped to 8q21.3. Calretinin is expressed in central and peripheral nervous system and in many normal and pathological tissues. The rat and human calretinin exhibit 98% sequence homology and 91% homology to many other species. Two calcium binding proteins, calbindin and calretinin, have been reported to be expressed in abundance in Purkinje cells and other cell types in the cerebellum.
References	1. Parmentier M.; "The human calbindins: cDNA and gene cloning."; Adv. Exp. Med. Biol. 255:233-240 (1989). 2. Strauss K.I., Kuznicki J., Winsky L., Kawagoe J.I., Hammer M., Jacobowitz D.M.; "The mouse calretinin gene promoter region: structural and functional components."; Brain Res. Mol. Brain Res. 49:175-187 (1997). 3. Gabrielides C., McCormack A.L., Hunt D.F., Christakos S.; "Brain calbindin-D28k and an Mr 29, 000 calcium binding protein in cerebellum are different but related proteins: evidence obtained from sequence analysis by tandem mass spectrometry."; Biochemistry 30:656-662 (1991).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826655
NCBI GeneID	793
NCBI Accession #	NP_004920.1
NCBI GenBank Nucleotide #	NM_004929.4
UniProt Accession #	P05937; B2R696; B7Z9J4
Molecular Weight	23,609 Da
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

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/calbindin-calb1-antibody-direct-elisa-immunohistochemistry-western-blot-elisa/124947>