Datasheet for ABIN6719541

anti-CALB1 antibody (AA 2-261)

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Overview

Quantity:	100 µg
Target:	CALB1
Binding Specificity:	AA 2-261
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CALB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Calbindin/CALB1 Antibody Picoband®
Immunogen:	E. coli-derived human Calbindin recombinant protein (Position: A2-N261).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Calbindin/CALB1 Antibody Picoband® (ABIN6719541). Tested in ELISA, Flow Cytometry, IF, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	CALB1
Alternative Name:	CALB1 (CALB1 Products)
Background:	Synonyms: Calbindin, Calbindin D28, D-28K, Vitamin D-dependent calcium-binding protein, avian-type, CALB1, CAB27 Tissue Specificity: Detected in skin. In the cornea, it is detected in the epithelial basement membrane, the epithelial cells, and at a lower level in stromal cells. Stratified squamous epithelia. Found in hemidesmosomes. Expressed in cornea, oral mucosa, esophagus, intestine, kidney collecting ducts, ureter, bladder, urethra and thymus but is absent in lung, blood vessels, skeletal muscle and nerves. 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.
Molecular Weight:	28 kDa
UniProt:	P05937

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse, Rat Immunofluorescence, 5 µg/mL, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 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).
Comment:	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of

Application Details

	formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na_2HPO_4, 0.05 mg NaN_3.
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,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.