

Anti-Calretinin Antibody

Catalog # ABO10510

Product Information

Application	WB, IHC-P
Primary Accession	P22676
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Liquid
Description	Rabbit IgG polyclonal antibody for Calretinin(CALB2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Additional Information

Gene ID	794
Other Names	Calretinin, CR, 29 kDa calbindin, CALB2, CAB29
Calculated MW	31540
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
Tissue Specificity	Brain.
Source	Eukaryota
Protein Name	Calretinin(CR)
Contents	Each vial contains 50% glycerol, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ . Carrier free (No BSA) form available in stock. If you want this antibody carrier free please specify "Carrier Free" or "No BSA" in your order note. "
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Calretinin(4-18aa PQQPPYLHLAELTA), identical to the related rat sequence.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year, at 4° C for one month. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the calbindin family.

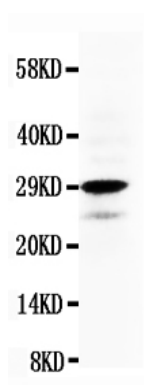
Protein Information

Name	CALB2 (HGNC:1435)
Synonyms	CAB29
Function	Calcium-binding protein involved in calcium homeostasis and signal transduction. It plays a critical role in buffering intracellular calcium levels and modulating calcium-dependent signaling pathways (PubMed: 2001709). Predominantly expressed in specific neuronal populations, influences synaptic plasticity and neuronal excitability, contributing to learning and memory (By similarity). During embryonic development, it facilitates neuronal differentiation and maturation (By similarity).
Cellular Location	Synapse {ECO:0000250 UniProtKB:Q08331}. Cell projection, dendrite {ECO:0000250 UniProtKB:Q08331}. Note=Located in dendrites, small dendrites that makes up a brush structure found as the terminal specialization of a dendrite of a unipolar brush cell {ECO:0000250 UniProtKB:Q08331}
Tissue Location	Brain.

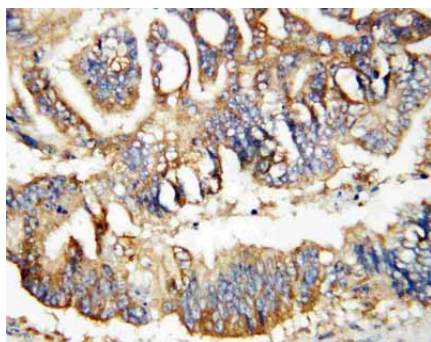
Background

Calbindin is a calcium-binding protein belonging to the troponin C superfamily. 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.

Images



Anti-Calretinin antibody, ABO10510, Western blottingWB:
HELA Cell Lysate



Anti-Calretinin antibody, ABO10510, IHC(P)IHC(P): Human
Rectal Cancer Tissue

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