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CALB2 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2056a

Product Information

Application	WB, E
Primary Accession	P22676
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5E9B6
Isotype	IgG1
Calculated MW	31540
Description	This gene encodes an intracellular calcium-binding protein belonging to the troponin C superfamily. Members of this protein family have six EF-hand domains which bind calcium. This protein plays a role in diverse cellular functions, including message targeting and intracellular calcium buffering. It also functions as a modulator of neuronal excitability, and is a diagnostic marker for some human diseases, including Hirschsprung disease and some cancers. Alternative splicing results in multiple transcript variants.
Immunogen	Purified recombinant fragment of human CALB2(AA: 1-271) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	794
Other Names	Calretinin, CR, 29 kDa calbindin, CALB2, CAB29
Dilution	WB~~1/500 - 1/2000 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CALB2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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 dendrioles, 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.

References

1.Int J Cancer. 2013 Nov;133(9):2077-88.2.BMC Cancer. 2010 May 28;10:242.

Images

