

# CALB2 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO2056a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P22676</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	5E9B6
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	31540
<b>Description</b>	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.
<b>Immunogen</b>	Purified recombinant fragment of human CALB2(AA: 1-271) expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Gene ID</b>	794
<b>Other Names</b>	Calretinin, CR, 29 kDa calbindin, CALB2, CAB29
<b>Dilution</b>	WB~~1/500 - 1/2000 E~~1/10000
<b>Storage</b>	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.
<b>Precautions</b>	CALB2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CALB2 ( <a href="#">HGNC:1435</a> )
<b>Synonyms</b>	CAB29

<b>Function</b>	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: <a href="#">2001709</a> ). 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).
<b>Cellular Location</b>	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}
<b>Tissue Location</b>	Brain.

## References

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

## Images

