

**CABP1 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11095c****Specification**

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**CABP1 Antibody (Center) Blocking peptide - Product Information**Primary Accession [Q9NZU7](#)**CABP1 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 9478**Other Names**

Calcium-binding protein 1, CaBP1, Calbrain, Caldendrin, CABP1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CABP1 Antibody (Center) Blocking peptide - Protein Information****Name** CABP1**Function**

Modulates calcium-dependent activity of inositol 1,4,5- triphosphate receptors (ITPRs)(PubMed:<a href="http://www.uniprot.org/citations/14570872" target="\_blank">14570872</a>). Inhibits agonist- induced intracellular calcium signaling (PubMed:<a href="http://www.uniprot.org/citations/15980432" target="\_blank">15980432</a>). Enhances inactivation and does not support calcium-dependent facilitation of voltage-dependent P/Q-type calcium channels (PubMed:<a href="http://www.uniprot.org/citations/11865310" target="\_blank">11865310</a>). Causes calcium-dependent facilitation and inhibits inactivation of L-type calcium channels by binding to the same sites as calmodulin in the C- terminal domain of CACNA1C, but has an opposite effect on channel function (PubMed:<a href="http://www.uniprot.org/citations/15140941" target="\_blank">15140941</a>). Suppresses the calcium-dependent inactivation of CACNA1D (By similarity). Inhibits TRPC5 channels (PubMed:<a href="http://www.uniprot.org/citations/15895247" target="\_blank">15895247</a>). Prevents NMDA receptor-induced cellular degeneration. Required for the normal transfer of light signals through the retina (By similarity).

**Cellular Location**

Cytoplasm, cytoskeleton. Cytoplasm, perinuclear region. Cell membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus Postsynaptic density. Note=L-CaBP1 is associated most likely

with the cytoskeletal structures, whereas S-CaBP1 is localized at or near the plasma membrane. [Isoform S-CaBP1]: Cytoplasm, cell cortex. Cell membrane; Lipid-anchor Note=S-CaBP1 is localized at or near the plasma membrane

**Tissue Location**

Retina and brain. Somatodendritic compartment of neurons. Calbrain was found exclusively in brain where it is abundant in the hippocampus, habenular area in the epithalamus and in the cerebellum

**CABP1 Antibody (Center) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**CABP1 Antibody (Center) Blocking peptide - Images****CABP1 Antibody (Center) Blocking peptide - Background**

The product of this gene belongs to a subfamily of calciumbinding proteins, which share similarity to calmodulin. Calciumbinding proteins are an important component of calcium mediatedcellular signal transduction. Expression of this gene was onlydetected in retina and brain. Study of the mouse homologdemonstrated that groups of cells expressing this protein arelocated in the center or inner border of the inner unclear layer ofretina. Three alternatively spliced variants encoding differentisoforms have been described.

**CABP1 Antibody (Center) Blocking peptide - References**

Li, C., et al. J. Biol. Chem. 284(4):2472-2481(2009)Chen, M.L., et al. J. Biomed. Sci. 15(2):169-181(2008)Haynes, L.P., et al. Proteomics 6(6):1822-1832(2006)Wingard, J.N., et al. J. Biol. Chem. 280(45):37461-37470(2005)Zhou, H., et al. J. Biol. Chem. 280(33):29612-29619(2005)