

Hippocalcin Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP1564c**Specification**

Hippocalcin Antibody (Center) Blocking Peptide - Product Information

Primary Accession [P84074](#)
Other Accession [P32076](#)

Hippocalcin Antibody (Center) Blocking Peptide - Additional Information

Gene ID 3208

Other Names

Neuron-specific calcium-binding protein hippocalcin, Calcium-binding protein BDR-2, HPCA, BDR2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1564c](/product/products/AP1564c) was selected from the Center region of human Hippocalcin . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

Hippocalcin Antibody (Center) Blocking Peptide - Protein Information

Name HPCA ([HGNC:5144](#))

Synonyms BDR2

Function

Calcium-binding protein that may play a role in the regulation of voltage-dependent calcium channels (PubMed:<http://www.uniprot.org/citations/28398555> target="_blank">28398555). May also play a role in cyclic-nucleotide-mediated signaling through the regulation of adenylate and guanylate cyclases (By similarity).

Cellular Location

Cytoplasm, cytosol {ECO:0000250|UniProtKB:P84076, ECO:0000269|PubMed:28398555}.

Membrane {ECO:0000250|UniProtKB:P84076}; Peripheral membrane protein

{ECO:0000250|UniProtKB:P84076} Note=Association with membranes is calcium-dependent (By

similarity) Enriched in the perinuclear region, probably at the trans Golgi network in response to calcium (PubMed:28398555) {ECO:0000250|UniProtKB:P84076, ECO:0000269|PubMed:28398555}

Tissue Location

Brain specific..

Hippocalcin Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Hippocalcin Antibody (Center) Blocking Peptide - Images**Hippocalcin Antibody (Center) Blocking Peptide - Background**

Hippocalcin is a member of neuron-specific calcium-binding proteins family found in the retina and brain. This protein is associated with the plasma membrane. It has similarities to proteins located in the photoreceptor cells that regulate photosignal transduction in a calcium-sensitive manner. This protein displays recoverin activity and a calcium-dependent inhibition of rhodopsin kinase. It is identical to the rat and mouse hippocalcin proteins and thought to play an important role in neurons of the central nervous system in a number of species.

Hippocalcin Antibody (Center) Blocking Peptide - References

Takamatsu, K., et al., Biochem. Biophys. Res. Commun. 200(1):606-611 (1994).Hidaka, H., et al., Neurosci. Res. 16(2):73-77 (1993).Kobayashi, M., et al., Biochem. Biophys. Res. Commun. 189(1):511-517 (1992).Masaki, T., et al., Gene 225 (1-2), 117-124 (1998).Ivings, L., et al., Biochem. J. 363 (Pt 3), 599-608 (2002).