

Rabbit Hippocalcin Polyclonal Antibody | anti-HPCA antibody

Hippocalcin Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285082	Rabbit	Human, mouse (Predicted Reactivity: Bovine, Pig, Rat)	Western Blot, Immunohistochemistry, ELISA

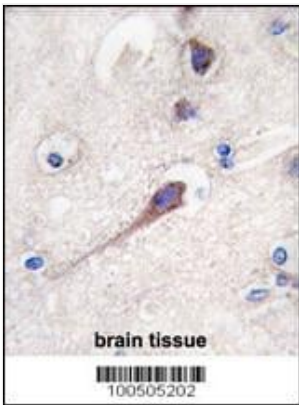
PRODUCT SYNONYMS

Hippocalcin; Polyclonal Antibody; Hippocalcin Antibody (N-term); Neuron-specific calcium-binding protein hippocalcin; Calcium-binding protein BDR-2; HPCA; BDR2; anti-HPCA antibody

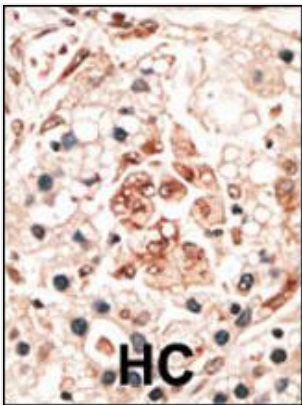
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Bovine, Pig, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Hippocalcin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2-32 amino acids from the N-terminal region of human Hippocalcin.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 1 (varies by lot)
Sequence Positions	2-32
Sequence Length	193
Applicable Applications for anti-HPCA antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Function	Calcium-binding protein that may play a role in the regulation of voltage-dependent calcium channels (PubMed: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
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

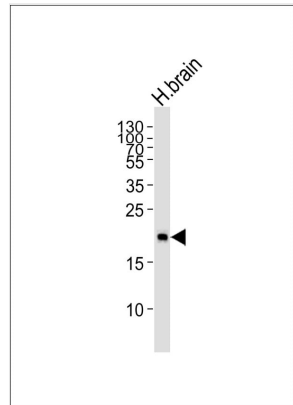
IMAGES



IHC (Immunohistochemisry)
Formalin-fixed and paraffin-embedded human brain tissue reacted with Hippocalcin antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



IHC (Immunohiostchemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
Western blot analysis of lysate from human brain tissue lysate, using Hippocalcin Antibody (R17). AAA285082 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

ADDITIONAL INFORMATION

Related Product Information for anti-HPCA antibody	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.
Product Categories/Family for anti-HPCA antibody	Crown Antibodies; Neuroscience
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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	19913446
NCBI GeneID	3208

NCBI Accession #	NP_002134.2
NCBI GenBank Nucleotide #	NM_002143.2
UniProt Accession #	P84074 ; P32076 ; P41211 ; P70510 ; B2R9T3 ; D3DPQ7
Molecular Weight	22427
NCBI Official Full Name	neuron-specific calcium-binding protein hippocalcin
NCBI Official Synonym Full Names	hippocalcin
NCBI Official Symbol	HPCA
NCBI Official Synonym Symbols	BDR2; DYT2
NCBI Protein Information	neuron-specific calcium-binding protein hippocalcin
UniProt Protein Name	Neuron-specific calcium-binding protein hippocalcin
UniProt Gene Name	HPCA
UniProt Synonym Gene Names	BDR2
UniProt Entry Name	HPCA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/hippocalcin-antibody-western-blot-immunohistochemistry-elisa/285082>