

Rabbit CABP1 Polyclonal Antibody | anti-CABP1 antibody

CABP1 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287891	Rabbit	Human, mouse (Predicted Reactivity: Bovine, Rat)	Immunohistochemistry, ELISA, Western Blot

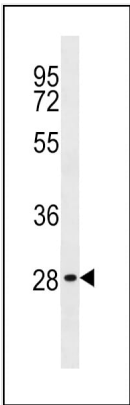
PRODUCT SYNONYMS

CABP1; Polyclonal Antibody; CABP1 Antibody (C-term); Calcium-binding protein 1; CaBP1; Calbrain; Caldendrin; anti-CABP1 antibody

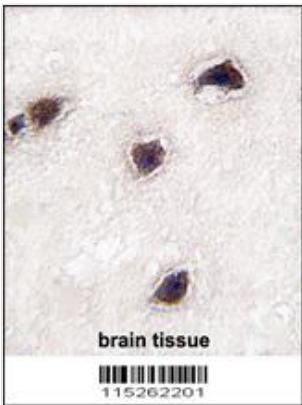
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Bovine, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CABP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 311-343 amino acids from the C-terminal region of human CABP1.
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: 2 (varies by lot)
Sequence Positions	311-343
Sequence Length	70
Applicable Applications for anti-CABP1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Function	Modulates calcium-dependent activity of inositol 1,4,5- triphosphate receptors (ITPRs)(PubMed:). Inhibits agonist-induced intracellular calcium signaling (PubMed:). Enhances inactivation and does not support calcium-dependent facilitation of voltage-dependent P/Q-type calcium channels (PubMed:). 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:). Suppresses the calcium-dependent inactivation of CACNA1D (By similarity). Inhibits TRPC5 channels (PubMed:). 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 Cell junction, synapse, 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.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

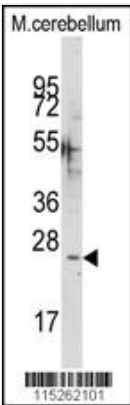
IMAGES



WB (Western Blot)
CABP1 Antibody (C-term) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the CABP1 antibody detected the CABP1 protein (arrow).



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human brain tissue reacted with CABP1 antibody (C-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.



WB (Western Blot)
Western blot analysis of anti-CABP1 Antibody (C-term) in mouse cerebellum tissue lysates (35ug/lane). CABP1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-CABP1 antibody	CABP1 belongs to a subfamily of calcium binding proteins, which share similarity to calmodulin. Calcium binding proteins are an important component of calcium mediated cellular signal transduction. Expression of this protein was only detected in retina and brain. Study of the mouse homolog demonstrated that groups of cells expressing this protein are located in the center or inner border of the inner uncular layer of retina.
Product Categories/Family for anti-CABP1 antibody	Neuroscience; Signal Transduction
References	Haynes, L.P., Proteomics 6 (6), 1822-1832 (2006) Wingard, J.N., J. Biol. Chem. 280 (45), 37461-37470 (2005) Zhou, H., J. Biol. Chem. 280 (33), 29612-29619 (2005) Haeseleer, F., J. Biol. Chem. 275 (2), 1247-1260 (2000)

NCBI AND UNIPROT INFORMATION

NCBI GI #	76056882
NCBI GeneID	9478
NCBI Accession #	NP_001028849.1; NP_004267.2; NP_112482.1
NCBI GenBank Nucleotide #	NM_001033677.1
UniProt Accession #	Q9NZU7; O95663; Q8N6H5; Q9NZU8

Molecular Weight	39838
NCBI Official Full Name	calcium-binding protein 1 isoform 3
NCBI Official Synonym Full Names	calcium binding protein 1
NCBI Official Symbol	CABP1
NCBI Official Synonym Symbols	CALBRAIN; HCALB_BR
NCBI Protein Information	calcium-binding protein 1
UniProt Protein Name	Calcium-binding protein 1
UniProt Gene Name	CABP1
UniProt Synonym Gene Names	CaBP1
UniProt Entry Name	CABP1_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/cabp1-antibody-immunohistochemistry-western-blot-elisa/287891>