



CABP Polyclonal Antibody

Catalog No	BYab-03010
Isotype	IgG
Reactivity	Rat;Mouse
Applications	WB;IHC;IF
Gene Name	CABP1
Protein Name	Calcium-binding protein 1 (CaBP1) (Calbrain) (Caldendrin)
Immunogen	Synthetic Peptide of CABP
Specificity	The antibody detects endogenous CABP protein
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Calcium-binding protein 1 (CaBP1;Calbrain;Caldendrin)
Observed Band	40kD
Cell Pathway	Cytoplasm, cytoskeleton . Cytoplasm, perinuclear region . Cell membrane ; Lipid-anchor; Cytoplasmic side. Golgi apparatus . Cell junction, synapse, postsynaptic density . L-CaBP1 is associated most likely with the cytoskeletal structures, whereas S-CaBP1 is localized at or near the plasma membrane. . ; [Isoform L-CaBP1]: Cytoplasm, cytoskeleton . L-CaBP1 is associated most likely with the cytoskeletal structures. . ; [Isoform S-CaBP1]: Cytoplasm, cell cortex. Cell membrane ; Lipid-anchor . S-CaBP1 is localized at or near the plasma membrane.
Tissue Specificity	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.
Function	alternative products:Experimental confirmation may be lacking for some isoforms.similarity:Contains 4 EF-hand domains.,subcellular location:L-CaBP1 is associated most likely with the cytoskeletal structures, whereas S-CaBP1 is localized at or near the plasma membrane.,subunit:Interacts with MYO1C.,tissue specificity:Retina and brain. Calbrain was found exclusively in brain where it is

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Background

Calcium binding proteins are an important component of calcium mediated cellular signal transduction. This gene encodes a protein that belongs to a subfamily of calcium binding proteins which share similarity to calmodulin. The protein encoded by this gene regulates the gating of voltage-gated calcium ion channels. This protein inhibits calcium-dependent inactivation and supports calcium-dependent facilitation of ion channels containing voltage-dependent L-type calcium channel subunit alpha-1C. This protein also regulates calcium-dependent activity of inositol 1,4,5-triphosphate receptors, P/Q-type voltage-gated calcium channels, and transient receptor potential channel TRPC5. This gene is predominantly expressed in retina and brain. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2012],

matters needing attention

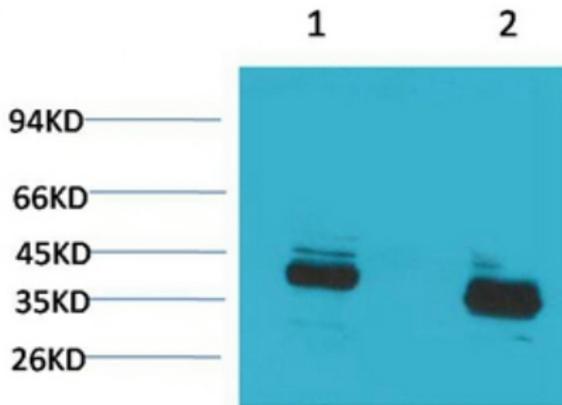
Avoid repeated freezing and thawing!

Usage suggestions

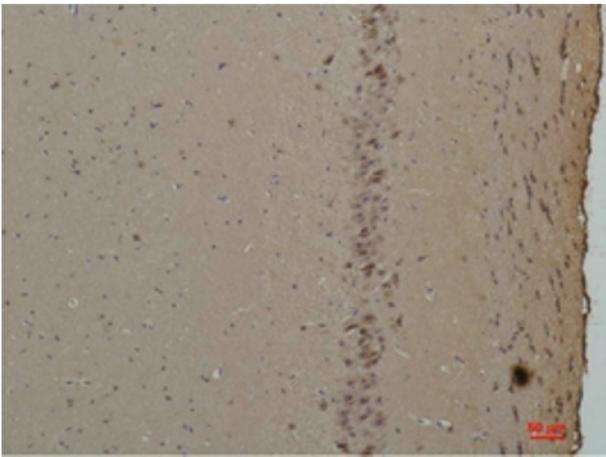
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Western blot analysis of 1) Mouse Brain Tissue, 2) Rat Brain Tissue with CABP Rabbit pAb diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded Rat Brain Tissue using CABP Rabbit pAb diluted at 1:200.