Best Tools for immunology Research

CABP Polyclonal Antibody

Catalog No :	YN5655
Reactivity :	Rat;Mouse
Applications :	WB;IHC;IF
Target :	CABP
Gene Name :	CABP1
Protein Name :	Calcium-binding protein 1 (CaBP1) (Calbrain) (Caldendrin)
Human Gene Id :	9478
Human Swiss Prot No :	Q9NZU7
Mouse Swiss Prot No :	Q9JLK7
Rat Swiss Prot No :	O88751
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
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 40kD

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 disinct isoforms. [provided by RefSeq, Jul 2012],

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 abundant in the hippocampus, habenular area in the epithalamus and in the cerebellum.,

Subcellular Location : 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.

Expression : 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.

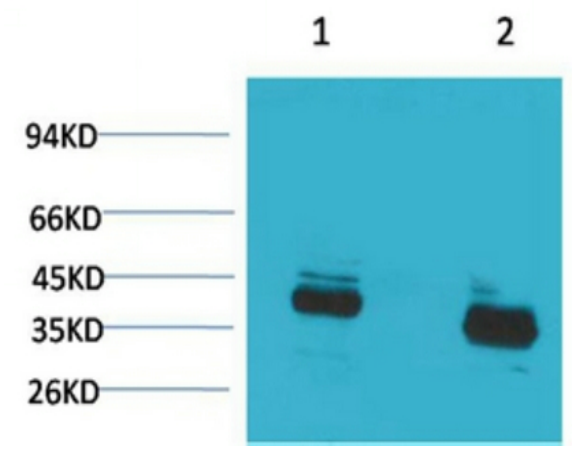
Sort : 3004

No4 : 1

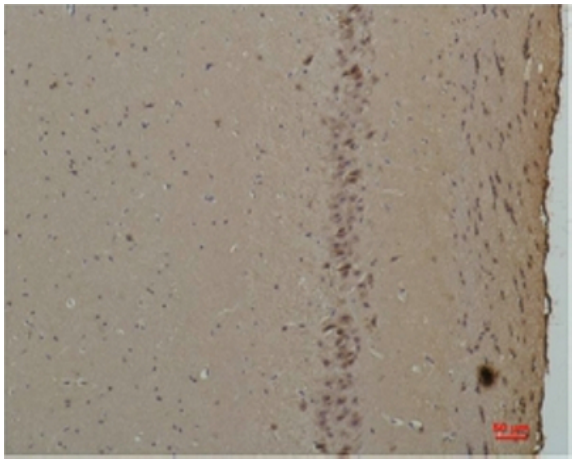
Host : Rabbit

Modifications : Unmodified

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.