

## CABP Polyclonal Antibody

<b>Catalog No :</b>	YN5655
<b>Reactivity :</b>	Rat;Mouse
<b>Applications :</b>	WB;IHC;IF
<b>Target :</b>	CABP
<b>Gene Name :</b>	CABP1
<b>Protein Name :</b>	Calcium-binding protein 1 (CaBP1) (Calbrain) (Caldendrin)
<b>Human Gene Id :</b>	9478
<b>Human Swiss Prot No :</b>	Q9NZU7
<b>Mouse Swiss Prot No :</b>	Q9JLK7
<b>Rat Swiss Prot No :</b>	O88751
<b>Immunogen :</b>	Synthetic Peptide of CABP
<b>Specificity :</b>	The antibody detects endogenous CABP protein
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 40kD

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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],

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**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.,

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**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.

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**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.

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**Sort :** 3004

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**No4 :** 1

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**Host :** Rabbit

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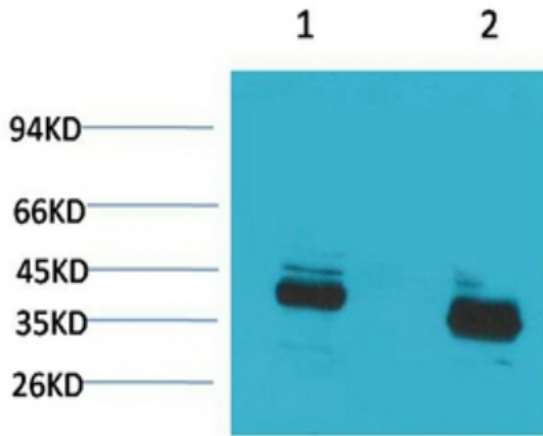
**Modifications :** Unmodified

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**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.

