

Recombinant Human CABP1 protein, His & T7-tagged

Cat. No. CABP1-1118H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CABP1 aa. (Asp238~Arg370 (Accession # Q9NZU7) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asp238~Arg370
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 19.0kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 4.5.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.
GENE INFORMATION	
Gene Name	CABP1 calcium binding protein 1 [Homo sapiens (human)]
Official Symbol	CABP1
Synonyms	CABP1; calcium binding protein 1; CALBRAIN; HCALB_BR; calcium-binding protein 1; calcium binding protein 5; caldendrin
Gene ID	9478

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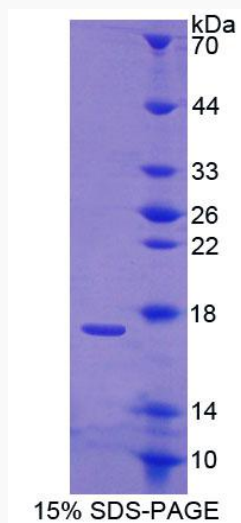
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mRNA Refseq NM_001033677.1

Protein Refseq NP_001028849.1

UniProt ID Q9NZU7

SDS-PAGE



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