Recombinant Full Length Human calcium binding protein 1 protein, His&T7 tagged

Cat. No. CABP1-1119H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CABP1 protein (1-370aa) with N-His&T7 tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-370aa
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 disinct isoforms.
Tag	N-His&T7
Molecular Mass	22 kDa

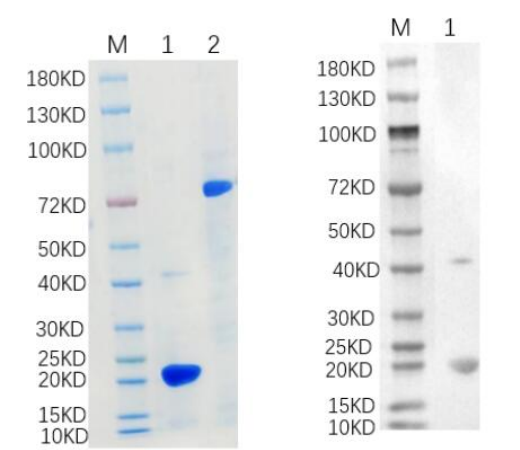
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AA Sequence	MASMTGGQQMGRGHHHHHHHENLYFQGGFGNCVKYPLRNLSRKDRSLRPEEIEEL REAFREFDKDKDGYINCRDLGNCMRTMGYMPTEMELIELSQQINMNLGGHVDFDDF VELMGPKLLAETADMIGVKELRDAFREFDTNGDGEISTSELREAMRKLLGHQVGHR DIEEIIRDVDLNGDGRVDFEEFVRMMSR
Endotoxin	< 1 EU/μg by LAL
Purity	> 95% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from 50mM Tris, 300mM NaCl, pH8.5, 5% Trehalose
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.49 mg/mL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

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
mRNA Refseq	NM_031205

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Protein Refseq	NP_112482
MIM	605563
UniProt ID	Q9NZU7
Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified CABP1.	 1. CABP1 2. BSA

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