

Recombinant Human capping protein (actin filament) muscle Z-line, alpha 2, His-tagged

Cat. No. CAPZA2-273H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CAPZA2, 1-286aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-286 a.a.
Description	CAPZA2 is a member of the F-actin capping protein alpha subunit family. It is the alpha subunit of the barbed-end actin binding protein Cap Z. By capping the barbed end of actin filaments, Cap Z regulates the growth of the actin filaments at the barbed end. Recombinant human CAPZA2 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M UREA
Molecular Mass	35.3 kDa (309aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSMADLEEQ LSDEEKVRIA AKFIIHAPPG EFNEVFNDVR LLLNNDNLLR EGAAHAFAQY NLDQFTPVKI EGYEDQVLIT EHGDLGNGKF LDPKNRICFK FDHLRKEATD PRPCEVENAV ESWRTSVETA LRAYVKEHYP NGVCTVYGKK IDGQQTIAC IESHQFQAKN FWNGRWRSEW KFTITPSTTQ VVGILKIQVH YYEDGNVQLV SHKDIQDSLTSNEVQTAKE FIKIVEAAEN EYQTAISENY QTMSDITTFKA LRRQLPVTRT KIDWNKILSY

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	KIGKEMQNA
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	CAPZA2 capping protein (actin filament) muscle Z-line, alpha 2 [Homo sapiens]
Official Symbol	CAPZA2
Synonyms	CAPZA2; capping protein (actin filament) muscle Z-line, alpha 2; F-actin-capping protein subunit alpha-2; CAPPA2; CAPZ; F actin capping protein alpha 2 subunit; capZ alpha-2; F-actin capping protein alpha-2 subunit;
Gene ID	830
mRNA Refseq	NM_006136
Protein Refseq	NP_006127
MIM	601571
UniProt ID	P47755
Chromosome Location	7q31.2-q31.3

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Pathway	Advanced glycosylation endproduct receptor signaling, organism-specific biosystem; Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Hemostasis, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem;
Function	actin binding;

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