

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

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

## SPECIFICATION

<b>Product Overview</b>	CAPZA2, 1-286aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-286 a.a.
<b>Description</b>	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.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M UREA
<b>Molecular Mass</b>	35.3 kDa (309aa)
<b>AA Sequence</b>	<p>MGSSHHHHHH SGLVPRGSH MGSMADLEEQ LSDEEKVRIA AKFIIHAPPG            EFNEVFNDVR LLLNNDNLLR EGAAHAFAY NLDQFTPVKI EGYEDQVLIT            EHGDLGNGKF LDPKNRICFK FDHLRKEATD PRPCEVENAV ESWRTSVETA            LRAYVKEHYP NGVCTVYGKK IDGQQTIAC IESHQFQAKN FWNGRWRSEW            KFTITPSTTQ VVGILKIQVH YYEDGNVQLV SHKDIQDSL T VSNEVQTAKE            FIKIVEAAEN EYQTAISENY QTMSDITFKA LRRQLPVTRT KIDWNKILSY</p>

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	KIGKEMQNA
<b>Purity</b>	>85% by SDS - PAGE
<b>Storage</b>	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.
<b>Concentration</b>	1mg/ml (determined by Bradford assay)
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CAPZA2 capping protein (actin filament) muscle Z-line, alpha 2 [ Homo sapiens ]
<b>Official Symbol</b>	CAPZA2
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">830</a>
<b>mRNA Refseq</b>	<a href="#">NM_006136</a>
<b>Protein Refseq</b>	<a href="#">NP_006127</a>
<b>MIM</b>	<a href="#">601571</a>
<b>UniProt ID</b>	<a href="#">P47755</a>
<b>Chromosome Location</b>	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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