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# **Recombinant human CLTB protein**

Catalog Number: ATGP1662

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

1-211aa

#### **UniProt No.**

P09497

#### **NCBI Accession No.**

NP 001825

#### **Alternative Names**

clathrin light chain B, clathrin, light chain B, LCB

# PRODUCT SPECIFICATION

### **Molecular Weight**

25.6 kDa (234aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.2mM PMSF, 100mM NaCl

#### **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

CLTB (Clathrin light chain B) belongs to the clathrin light chain family. Clathrin is a protein that plays a major role in the formation of coated vesicles. It forms a triskelion shape composed of three clathrin heavy chains and three light chains. When the triskelia interact they form a polyhedral lattice that surrounds the vesicle. Coatproteins, like clathrin, are used to build small vesicles in order to safely transport molecules between cells. Clathrin-mediated endocytosis (CME) regulates many cellular physiological processes such as the internalization of growth factors and receptors, entry of pathogens, and synaptic transmission. Recombinant human CLTB



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protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

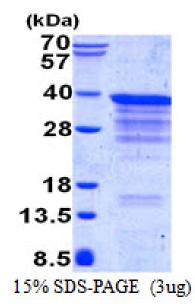
MGSSHHHHHH SSGLVPRGSH MGSMADDFGF FSSSESGAPE AAEEDPAAAF LAQQESEIAG IENDEGFGAP AGSHAAPAQP GPTSGAGSED MGTTVNGDVF QEANGPADGY AAIAQADRLT QEPESIRKWR EEQRKRLQEL DAASKVTEQE WREKAKKDLE EWNQRQSEQV EKNKINNRAS EEAFVKESKE ETPGTEWEKV AQLCDFNPKS SKQCKDVSRL RSVLMSLKQT PLSR

## **General References**

Lisa von Kleist. et al. (2011) Cell 146:471-484 Chen C.-Y., et al. (2005) J. Biol. Chem. 280:6109-6117

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

