

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. Coat-proteins, 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 EKNKINNRRAS EEAFFVKESKE ETPGTEWEKV AQLCDFNPKS SKQCKDVSRL RSVLMSLKQT PLSR

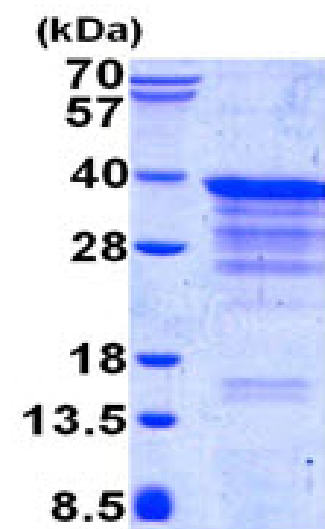
General References

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.

15% SDS-PAGE (3ug)