

# Recombinant human TUBG1 protein

Catalog Number: ATGP3767

## PRODUCT INFORMATION

### Expression system

Baculovirus

### Domain

1-451aa

### UniProt No.

P23258

### NCBI Accession No.

NP\_001061

### Alternative Names

Tubulin gamma-1 chain, TUBG1, CDCBM4, GCP-1, TUBG, TUBGCP1

## PRODUCT SPECIFICATION

### Molecular Weight

51.9 kDa (457aa)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.1M NaCl, 2mM DTT, 50mM imidazole.

### Purity

> 85% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### 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

TUBG1, also known as tubulin gamma-1 chain, is a member of the tubulin superfamily. This protein is found at microtubule organizing centers (MTOC) such as the spindle poles or the centrosome. It is the pericentriolar matrix component that regulates alpha/beta tubulin minus-end nucleation, centrosome duplication and spindle formation. It is required for microtubule formation and progression of the cell cycle. Also, this protein interacts

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with GCP2, GCP3, and B9D2. The interaction is leading to centrosomal localization of TUBG1 and CDK5RAP2. Recombinant human TUBG1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

MPREIITLQL GQCGNQIGFE FWKQLCAEHG ISPEGIVEEF ATEGTDRKDV FFYQADDEHY IPRAVLDDLE PRVIHSILNS  
PYAKLYNPEN IYLSEHGGA GNNWASGFSQ GEKIHEDIFD IIDREADGSD SLEGFVLCHS IAGGTGSGLG SYLLERLNDR  
YPKKLVQTYS VFPNQDEMSD VVVQPYNSLL TLKRLTQNAD CVVVDNTAL NRIATDRLHI QNPSFSQINQ LVSTIMSAST  
TTLRYPGYMN NDLIGLIASL IPTPRLHFLM TGYTPLTDDQ SVASVRKTTV LDVMRRLQK KNVMVSTGRD RQTNHCYIAI  
LNIIQGEVDP TQVHKSLQRI RERKLANFIP WGPASIQVAL SRKSPYLPVA HRVSGLMMAN HTSISSLFER TCRQYDKLRK  
REAFLEQFRK EDMFKDNFDE MDTREIVQQ LIDEYHAATR PDYISWGTQE Q<HHHHHH>

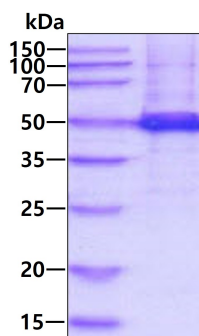
## General References

Zheng Y., et al, (1991) Cell 65:817-823.

Kapeller R., et al, (1995) J. Biol. Chem. 270:25985-25991.

## DATA

### SDS-PAGE



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