

Recombinant human JTB protein

Catalog Number: ATGP2782

PRODUCT INFORMATION

Expression system

E.coli

Domain

31-105aa

UniProt No.

O76095

NCBI Accession No.

NP_006685

Alternative Names

Jumping translocation breakpoint, hJT, HJTb, HSPC222, PAR

PRODUCT SPECIFICATION

Molecular Weight

10.7 kDa (98aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

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

Jumping translocation breakpoint, also known as JTB, is required for normal cytokinesis during mitosis. This protein plays a role in the regulation of cell proliferation. This protein may be a component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. It inhibits apoptosis induced by TGFB1. Overexpression induces swelling of mitochondria and reduces mitochondrial membrane potential. Recombinant

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

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSEAPVQEE KLSASTSNLP CWLVEEFVVA EECSPCSNFR AKTTPECGPT GYVEKITCSS
SKRNEFKSCR SALMEQRL

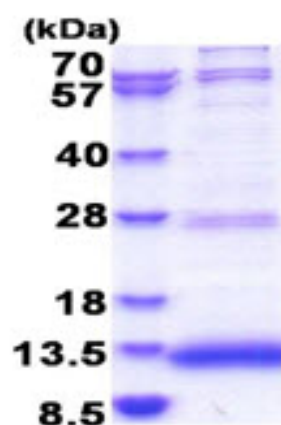
General References

Platica M., et al. (2011) *Int. J. Oncol.* 38:777-785

Kanome T., et al. (2007) *Oncogene.* 26:5991-6001

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)