

# Recombinant human CHIP/STUB1 protein

Catalog Number: CHP0905

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-303aa

### UniProt No.

Q9UNE7

### NCBI Accession No.

NP\_005852

### Alternative Names

Carboxy terminus of HSP70 interacting protein, STuB1, HSPABP2, NY-CO-7, SDCCAG7, uBOX1, Carboxy terminus of HSP70 interacting protein Antigen NY CO 7, CLL associated antigen KW 8, Carboxy terminus of Hsp70p interacting protein, CHIP, E3 ubiquitin protein ligase CHIP, STuB 1, uBOX 1, Heat shock protein A binding protein 2 (c terminal), NY CO 7, Serologically defined colon cancer antigen 7, STIP1 homology and u Box containing protein 1.

## PRODUCT SPECIFICATION

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### Molecular Weight

34.8 kDa (303aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 5mM DTT, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

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

### Tag

Non-Tagged

### 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

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# Recombinant human CHIP/STUB1 protein

Catalog Number: CHP0905

## Description

CHIP, also known as STuB1, is a cytoplasmic protein whose amino acid sequence is highly conserved across species. CHIP interacts with the molecular chaperones Hsc70-Hsp70 and Hsp90 through its TPR domain, whereas its u-box domain contains its E3 ubiquitin ligase activity. Its interaction with these molecular chaperones results in client substrate ubiquitylation and degradation by the proteasome. Thus, CHIP acts to tilt the folding-refolding machinery toward the degradative pathway, and it serves as a link between the two. Recombinant human CHIP protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

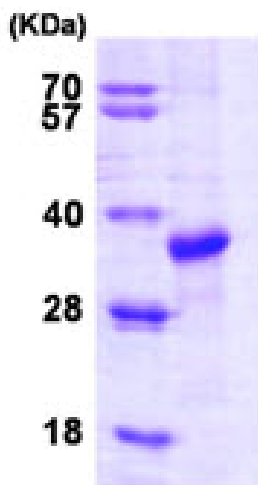
MKGKKEEKEGG ARLGAGGGSP EKSPSAQELK EQGNRLFVGR KYPEAAACYG RAITRNPLVA VYYTNRALCY LKMQQHEQAL ADCRRALELD GQSVKAHFFL GQCQLEMESY DEAIANLQRA YSLAKEQRLN FGDDIPSALR IAKKKRWNSI EERRIHQESE LHSYLSRLIA AERERELEEC QRNHEGDEDD SHVRAQQACI EAKHDKYMAD MDELFSQVDE KRKKRDIPDY LCGKISFELM REPCITPSGI TYDRKDIEEH LQRVGHFDPV TRSPLTQEQL IPNLAMKEVI DAFISENGWV EDY

## General References

Kajiro M., et al. (2009) *Nat Cell Biol.* 11(3):312-9.  
Ko HS., et al. (2009) *Proc Natl Acad Sci.* 106(8):2897-902.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)