

Recombinant Human STUB1, His-tagged

Cat. No. STUB1-265H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human STUB1 (CHIP) was expressed in E. coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
Description	CHIP(STUB1) or STIP1 homology and U-box containing protein 1 (also known as E3 ubiquitin protein ligase) is a ubiquitin ligase/cochaperone that participates in protein quality control by targeting a broad range of chaperone protein substrates for degradation. CHIP acts as a molecular switch for the degradation of misfolded proteins via the proteasome and lysosome pathways. CHIP controls the cellular level of BER enzymes and, correspondingly, the efficiency and capacity of BER. CHIP E3 ubiquitin ligases act sequentially in ER membrane and cytosol to monitor the folding status of CFTR and Δ F508. CHIP possesses intrinsic E3 ubiquitin ligase activity and promotes ubiquitylation.
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~37 kDa
Purity	>95% by densitometry
Applications	Western Blot

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Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µl
Full Length	Full L.
GENE INFORMATION	
Gene Name	STUB1 STIP1 homology and U-box containing protein 1, E3 ubiquitin protein ligase [<i>Homo sapiens</i>]
Official Symbol	STUB1
Synonyms	STUB1; STIP1 homology and U-box containing protein 1, E3 ubiquitin protein ligase; STIP1 homology and U box containing protein 1; E3 ubiquitin-protein ligase CHIP; CHIP; HSPABP2; NY CO 7; SDCCAG7; UBOX1; antigen NY-CO-7; CLL-associated antigen KW-8; serologically defined colon cancer antigen 7; STIP1 homology and U box-containing protein 1; carboxy terminus of Hsp70-interacting protein; heat shock protein A binding protein 2 (c-terminal); NY-CO-7;
Gene ID	10273
mRNA Refseq	NM_005861
Protein Refseq	NP_005852
MIM	607207
UniProt ID	Q9UNE7

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Chromosome Location	16p13.3
Pathway	Adaptive Immune System, organism-specific biosystem; Alpha-synuclein signaling, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Antigen processing: Ubiquitination & Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem;
Function	Hsp70 protein binding; Hsp90 protein binding; SMAD binding; TPR domain binding; enzyme binding; kinase binding; ligase activity; misfolded protein binding; protein binding; protein binding, bridging; protein homodimerization activity; ubiquitin-protein ligase activity; ubiquitin-protein ligase activity; ubiquitin-protein ligase activity; ubiquitin-ubiquitin ligase activity;