

Product datasheet for **TA322552S**

STUB1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1000-5000 WB positive control: 293T cell lysate IHC: 50-200 Positive control: Human liver cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Full length fusion protein
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	35 kDa
Gene Name:	STIP1 homology and U-box containing protein 1
Database Link:	NP_005852 Entrez Gene 56424 Mouse Entrez Gene 10273 Human Q9UNE7



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Background:

The carboxy terminus of Hsc70-interacting protein (CHIP, STUB1) is a co-chaperone protein and functional E3 ubiquitin ligase that links the polypeptide binding activity of Hsp70 to the ubiquitin proteasome system. Cytoplasmic CHIP protein contains three 34-amino acid TPR (tetratricopeptide repeat) domains at its amino terminus and a carboxy-terminal U-box domain. CHIP interacts with the molecular chaperones Hsc70-Hsp70 and Hsp90 through its TPR domain, while E3 ubiquitin ligase activity is confined to the U-box domain. The binding of CHIP to Hsp70 can stall the folding of Hsp70 client proteins and concomitantly facilitate the U-box dependent ubiquitination of Hsp70-bound substrates. CHIP appears to play a central role in cell stress protection and is responsible for the degradation of disease-related proteins that include cystic fibrosis transmembrane conductance regulator, p53, huntingtin and Ataxin-3, Tau protein, and a-synuclein.

Synonyms:

CHIP; HSPABP2; NY-CO-7; SCAR16; SDCCAG7; UBOX1

Protein Families:

Druggable Genome

Protein Pathways:

Ubiquitin mediated proteolysis

Product images: