SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-STUB1 antibody

Catalog Number: SL15405R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	STUB1
Immunogen:	KLH conjugated synthetic peptide derived from human STUB1: 101-200/303
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human, Rat (predicted: Mouse, Pig, Sheep, Cow, Chicken, Dog, Horse)
Predicted MW.:	35kDa
Subcellular Location:	cytoplasmic
Background:	This gene encodes a protein containing tetratricopeptide repeat and a U-box that functions as a ubiquitin ligase/cochaperone. The encoded protein binds to and ubiquitinates shock cognate 71 kDa protein (Hspa8) and DNA polymerase beta (Polb), among other targets. Mutations in this gene cause spinocerebellar ataxia, autosomal recessive 16. Alternative splicing results in multiple transcript variants. There is a pseudogene for this gene on chromosome 2. [provided by RefSeq, Jun 2014] **Function:** E3 ubiquitin-protein ligase which targets misfolded chaperone substrates towards proteasomal degradation. Collaborates with ATXN3 in the degradation of misfolded chaperone substrates: ATXN3 restricting the length of ubiquitin chain attached to STUB1/CHIP substrates and preventing further chain extension. Ubiquitinates NOS1 in concert with Hsp70 and Hsp40.

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	Modulates the activity of several chaperone complexes, including Hsp70, Hsc70 and Hsp90. Mediates transfer of non-canonical short ubiquitin chains to HSPA8 that have no effect on HSPA8 degradation. Mediates polyubiquitination of DNA polymerase beta (POLB) at 'Lys-41', 'Lys-61' and 'Lys-81', thereby playing a role in base-excision repair: catalyzes polyubiquitination by amplifying the HUWE1/ARF-BP1-dependent monoubiquitination and leading to POLB-degradation by the proteasome. Mediates polyubiquitination of CYP3A4. Ubiquitinates EPHA2 and may regulate the receptor stability and activity through proteasomal degradation. **Subunit:** Homodimer (By similarity). Interacts with BAG2, and with the E2 ubiquitin conjugating enzymes UBE2D1, UBE2D2 and UBE2D3. Interacts with the C-terminal domains of HSPA8 and HSPA1A. Detected in a ternary complex containing STUB1, HSPA1A and HSPBP1. Interacts with MKKS. Interacts with DYX1C1 and POLB. Interacts (via TPR repeats) with HSP90AA1. Interacts (when monoubiquitinated) with ATXN3. Interacts with UBE2W (By similarity). Interacts (via the U-box domain) with the UBE2V2-UBE2N heterodimer; the complex has a specific 'Lys-63'-linked polyubiquitination activity. Interacts with DNAJB6. **Subcellular Location:** Cytoplasm. **Tissue Specificity:** Highly expressed in skeletal muscle, heart, pancreas, brain and placenta. Detected in kidney, liver and lung. **Post-translational modifications:** Monoubiquitinated at Lys-2 following cell stress by UBE2W, promoting the interaction with ATXN3 (By similarity). Auto-ubiquitinated; mediated by UBE2D1 and UBE2D2. **Similarity:** Contains 3 TPR repeats. Contains 1 U-box domain. **Database links:** **Entrez Gene:** 10273 Human **Entrez Gene:** 56424 Mouse **Entrez Gene:** 287155 Rat **SwissProt:** Q9UNE7 Human **SwissProt:** Q9WUD1 Mouse

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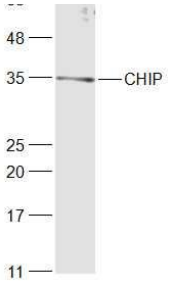
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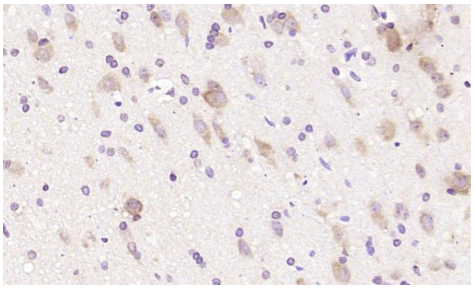
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[VALIDATION IMAGES]



Sample:
Hela(Human) Cell Lysate at 30 ug
Primary: Anti-CHIP (SL15405R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 35 kD
Observed band size: 35 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CHIP) Polyclonal Antibody, Unconjugated (SL15405R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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