

Rabbit STUB1 Polyclonal Antibody | anti-STUB1 antibody

STUB1 Antibody

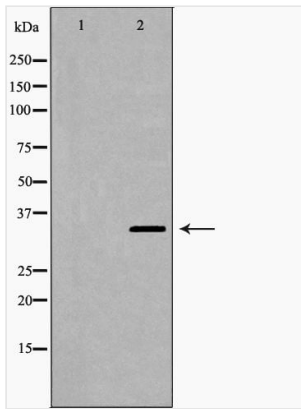
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326082	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

STUB1; Polyclonal Antibody; STUB1 Antibody; Antigen NY CO 7; Antigen NY-CO-7; C terminus of Hsp70-interacting protein; Carboxy terminus of Hsp70 interacting protein; Carboxy terminus of Hsp70-interacting protein; Carboxy terminus of Hsp70p interacting protein; CHIP; CHIP_HUMAN; CLL associated antigen KW 8; CLL-associated antigen KW-8; E3 ubiquitin protein ligase CHIP; E3 ubiquitin-protein ligase CHIP; Heat shock protein A binding protein 2 (c terminal); HSPABP2; NY CO 7; PP1131; SDCCAG7; Serologically defined colon cancer antigen 7; STIP1 homology and U Box containing protein 1; STIP1 homology and U box containing protein 1 E3 ubiquitin protein ligase; STIP1 homology and U box-containing protein 1; STUB 1; UBOX 1; UBOX1; anti-STUB1 antibody

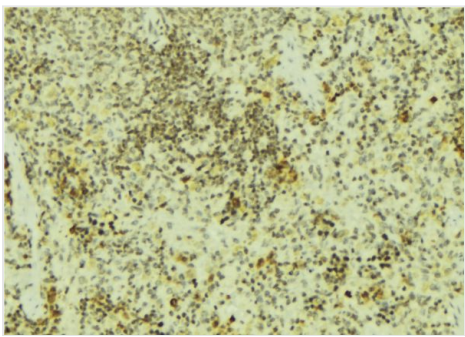
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	STUB1 antibody detects endogenous levels of total STUB1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	231
Applicable Applications for anti-STUB1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human STUB1
Subcellular Location	Cytoplasm.
Tissue Specificity	Highly expressed in skeletal muscle, heart, pancreas, brain and placenta. Detected in kidney, liver and lung.
Predicted Cross Reactivity	Zebrafish, Bovine, Horse, Sheep, Dog, Chicken, Xenopus
Similarity	Zebrafish (90%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of Mouse brain lysate, using STUB1 Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326082 at 1/100 staining Mouse pancreas tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-STUB1 antibody	Description: 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 (1). 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 (2, 3). 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 (4-6). CHIP appears to play a central role in cell stress protection (7) and is responsible for the degradation of disease-related proteins that include cystic fibrosis transmembrane conductance regulator (4), p53 (8), huntingtin and Ataxin-3 (9), Tau protein (10), and alpha-synuclein (11). 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. 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. Acts as a co-chaperone for HSPA1A and HSPA1B chaperone proteins and promotes ubiquitin-mediated protein degradation (PubMed:27708256). Negatively regulates the suppressive function of regulatory T-cells (Treg) during inflammation by mediating the ubiquitination and degradation of FOXP3 in a HSPA1A/B-dependent manner (PubMed:23973223). Likely mediates polyubiquitination and downregulates plasma membrane expression of PD-L1/CD274, an immune inhibitory ligand critical for immune tolerance to self and antitumor immunity. Negatively regulates TGF-beta signaling by modulating the basal level of SMAD3 via ubiquitin-mediated degradation (PubMed:24613385). Subunit Structure: Homodimer (By similarity). Interacts with BAG2 (PubMed:16169850). Interacts with E2 ubiquitin conjugating enzymes UBE2D1, UBE2D2 and UBE2D3 (PubMed:11557750). Detected in a ternary complex containing STUB1, HSPA1A and HSPBP1 (PubMed:15215316). Interacts with MKKS (PubMed:18094050). Interacts with DNAAF4 (PubMed:19423554). Interacts with POLB (PubMed:19713937). Interacts (when monoubiquitinated) with ATXN3. Interacts with UBE2W. Interacts (via the U-box domain) with the UBE2V2-UBE2N heterodimer; the complex has a specific 'Lys-63'-linked polyubiquitination activity (By similarity). Interacts with DNAJB6 (PubMed:22366786). Interacts with FOXP3 (PubMed:23973223). Interacts with FLCN (PubMed:27353360). Interacts with HSP90AA1 (PubMed:27353360, PubMed:24613385). Interacts with HSP90 (PubMed:11146632). Interacts with UBE2N and UBE2V1 (PubMed:16307917). Interacts (via TPR repeats) with the C-terminal domain of HSPA1A (PubMed:10330192). Interacts with the non-acetylated form of HSPA1A and HSPA1B (PubMed:27708256). Interacts (via TPR repeats) with the C-terminal domain of HSPA8 (PubMed:10330192, PubMed:11557750, PubMed:23990462, PubMed:27708256). Interacts with SMAD3 and HSP90AB1 (PubMed:24613385). 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: The U-box domain is required for the ubiquitin protein ligase activity. The TPR domain is essential for ubiquitination mediated by UBE2D1.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	645912990
NCBI GeneID	10273
NCBI Accession #	NP_001280126.1
NCBI GenBank Nucleotide #	NM_001293197.1
UniProt Accession #	Q9UNE7; O60526; Q969U2; Q9HBT1; A2IDB9
Molecular Weight	Observed: 35 kDa Predicted: 35 kDa
NCBI Official Full Name	E3 ubiquitin-protein ligase CHIP isoform b
NCBI Official Synonym Full Names	STIP1 homology and U-box containing protein 1
NCBI Official Symbol	STUB1

NCBI Official Synonym Symbols	CHIP; UBOX1; SCAR16; HSPABP2; NY-CO-7; SDCCAG7
NCBI Protein Information	E3 ubiquitin-protein ligase CHIP
UniProt Protein Name	E3 ubiquitin-protein ligase CHIP
UniProt Gene Name	STUB1
UniProt Synonym Gene Names	CHIP1 PublicationManual assertion based on opinion iniRef.2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/stub1-antibody-immunohistochemistry-western-blot-elisa/326082>