

## STUB1 Monoclonal Antibody | anti-STUB1 antibody

STUB1 Rabbit mAb

|                               |                                   |                                        |                                                         |
|-------------------------------|-----------------------------------|----------------------------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA314468</b> | HOST<br><b>Recombinant Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunofluorescence, Western Blot</b> |
|-------------------------------|-----------------------------------|----------------------------------------|---------------------------------------------------------|

### PRODUCT SYNONYMS

STUB1; Monoclonal Antibody; STUB1 Rabbit mAb; CHIP; UBOX1; SCAR16; HSPABP2; NY-CO-7; SDCCAG7; anti-STUB1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                        |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Host                                            | Recombinant Rabbit                                                                                     |
| Reactivity                                      | Human, Mouse, Rat                                                                                      |
| Clonality                                       | Monoclonal                                                                                             |
| Isotype                                         | Rabbit IgG                                                                                             |
| Clone Number                                    | S05-5F5                                                                                                |
| Purity/Purification                             | Affinity Purified                                                                                      |
| Form/Format                                     | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA                  |
| Concentration                                   | 0.3mg/ml (varies by lot)                                                                               |
| Applicable Applications for anti-STUB1 antibody | IF (Immunofluorescence), WB (Western Blot)                                                             |
| Immunogen                                       | A synthetic peptide of human STUB1                                                                     |
| Conjugation                                     | Unconjugated                                                                                           |
| Modification                                    | Unmodification                                                                                         |
| Preparation and Storage                         | Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles. |

### IMAGES



#### ICC (Immunocytochemistry)

Immunocytochemistry of STUB1(green) in HeLa cells using STUB1 Rabbit mAb at dilution 1/50, and DAPI(blue)



#### WB (Western Blot)

Western blot detection of STUB1 in K562, Rat Brain,C6,3T3,HeLa cell lysates using STUB1 Rabbit mAb(1:1000 diluted).Predicted band size:35kDa.Observed band size:35kDa.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-STUB1 antibody | 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). May regulate myosin assembly in striated muscles together with UBE4B and VCP/p97 by targeting myosin chaperone UNC45B for proteasomal degradation (PubMed:17369820). Mediates ubiquitination of RIPK3 leading to its subsequent proteasome-dependent degradation (PubMed:29883609). |
| Product Categories/Family for anti-STUB1 antibody   | Primary Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 78099173                                                                                                                                                                                                                         |
| NCBI GeneID                      | 10273                                                                                                                                                                                                                            |
| UniProt Accession #              | Q9UNE7; O60526; Q969U2; Q9HBT1; A2IDB9                                                                                                                                                                                           |
| Molecular Weight                 | 303                                                                                                                                                                                                                              |
| NCBI Official Full Name          | E3 ubiquitin-protein ligase CHIP                                                                                                                                                                                                 |
| NCBI Official Synonym Full Names | STIP1 homology and U-box containing protein 1, E3 ubiquitin protein ligase                                                                                                                                                       |
| NCBI Official Symbol             | STUB1                                                                                                                                                                                                                            |
| NCBI Official Synonym Symbols    | CHIP; UBOX1; SCAR16; HSPABP2; NY-CO-7; SDCCAG7                                                                                                                                                                                   |
| NCBI Protein Information         | E3 ubiquitin-protein ligase CHIP; antigen NY-CO-7; CLL-associated antigen KW-8; serologically defined colon cancer antigen 7; carboxy terminus of Hsp70-interacting protein; heat shock protein A binding protein 2 (c-terminal) |
| UniProt Protein Name             | E3 ubiquitin-protein ligase CHIP                                                                                                                                                                                                 |
| UniProt Gene Name                | STUB1                                                                                                                                                                                                                            |
| UniProt Entry Name               | CHIP_HUMAN                                                                                                                                                                                                                       |

**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](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/monoclonal/stub1-antibody-clone-s05-5f5-immunofluorescence-western-blot-elisa/314468>