

For Research Use Only

# STUB1 Monoclonal antibody

Catalog Number: 68407-1-Ig



## Basic Information

|   |   |   |
|---|---|---|
| <b>Catalog Number:</b><br>68407-1-Ig                              | <b>GenBank Accession Number:</b><br>NM_005861                         | <b>Purification Method:</b><br>Protein G purification                 |
| <b>Size:</b><br>150ul , Concentration: 1000 µg/ml by<br>Nanodrop; | <b>GeneID (NCBI):</b><br>10273  | <b>CloneNo.:</b><br>2E6B9   |
| <b>Source:</b><br>Mouse   | <b>Full Name:</b><br>STIP1 homology and U-box<br>containing protein 1 | <b>Recommended Dilutions:</b><br>WB 1:5000-1:50000<br>IF 1:400-1:1600 |
| <b>Isotype:</b><br>IgG1   | <b>Calculated MW:</b><br>35 kDa                                       |   |
|   | <b>Observed MW:</b><br>35 kDa   |   |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>IF, WB, ELISA | <b>Positive Controls:</b>   |
| <b>Species Specificity:</b><br>Human, rat    | <b>WB :</b> HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells,<br>HSC-T6 cells |
|  | <b>IF :</b> MCF-7 cells,  |

## Background Information

STUB1, also named as CHIP, SDCCAG7, UBOX1 and NY-CO-7, is a E3 ubiquitin-protein ligase which targets misfolded chaperone substrates towards proteasomal degradation. STUB1/CHIP modulates the activity of several chaperone complexes, including Hsp70, Hsc70 and Hsp90. It mediates transfer of non-canonical short ubiquitin chains to HSPA8 that have no effect on HSPA8 degradation. STUB1/CHIP mediates polyubiquitination of CYP3A4. (PMID:10330192) CHIP/STUB1 strongly reduced keratin aggregates through increased degradation of mutant K14. (PMID:20151404) STUB1/CHIP regulates NAD(P)H:quinone oxidoreductase 1 (NQO1) accumulation in aged brain, a process impaired in certain Alzheimer patients.(PMID:21220432 ) This antibody is specific to STUB1.

## Storage

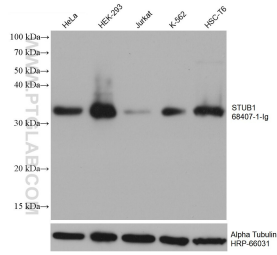
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

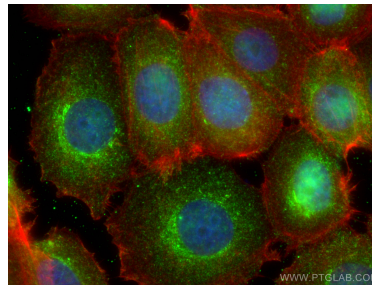
For technical support and original validation data for this product please contact:  
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E: proteintech@ptglab.com  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68407-1-Ig (STUB1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using STUB1 antibody (68407-1-Ig, Clone: 2E6B9) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).