

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CHIP/STUB1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CHIP/STUB1 Met1-Tyr303 Accession # Q9UNE7
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

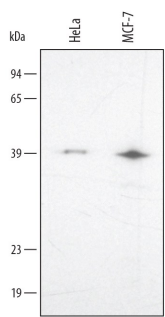
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-25 µg/mL	See Below

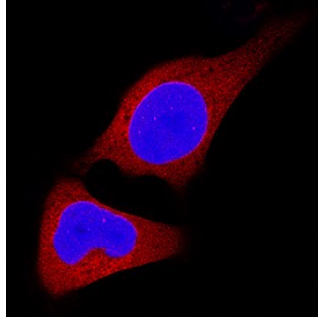
DATA

Western Blot



Detection of Human CHIP/STUB1 by Western Blot.
Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and MCF-7 human breast cancer cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human CHIP/STUB1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4685) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for CHIP/STUB1 at approximately 39 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

Immunocytochemistry



CHIP/STUB1 in HeLa Human Cell Line.
CHIP/STUB1 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Goat Anti-Human CHIP/STUB1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4685) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

STUB1 (STIP1 homology and U-box-containing protein 1, also known as C-terminus of Hsc70-interacting protein, CHIP) is a 35 kDa ubiquitin ligase that participates in intracellular protein folding/refolding and degradation. It is highly expressed in striated muscle. STUB1/CHIP may complex with the molecular chaperones Hsp70 and Hsp90, or act by itself. In either event, it regulates protein stability and ubiquitination. Human STUB1/CHIP is 303 amino acids (aa) in length. It contains one TPR domain (aa 27-127) plus a C-terminal U-Box (aa 226-299). Its TRP domain interacts with heat shock proteins, while the U-Box participates in ubiquitination. There is one isoform that shows an alternate start site at Met73. Human and mouse STUB1 are 97% aa identical.