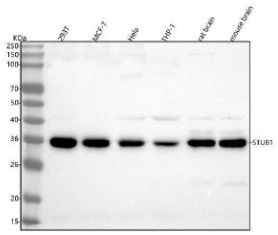
STUB1 Antibody 19S73 / CHIP Rabbit Monoclonal Antibody [clone 19S73] (FY13703)

Catalog No.	Formulation	Size
FY13703	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol	100 ul

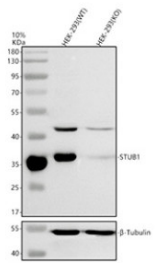
Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	19S73
Purity	Affinity purified
UniProt	Q9UNE7
Applications	Western blot: 1:500
Limitations	This STUB1 Antibody 19S73 / CHIP Rabbit Monoclonal Antibody is available for research use only.



STUB1 Antibody 19S73 WB Analysis of Human Cell Lines and Rodent Brain Tissue. Western blot analysis of human 293T (lane 1), MCF-7 (lane 2), HeLa (lane 3), and THP-1 (lane 4) whole-cell lysates, rat brain tissue (lane 5), and mouse brain tissue (lane 6) using CHIP Rabbit Monoclonal Antibody clone 19S73. A prominent immunoreactive band is detected at approximately 35 kDa in all six samples, consistent with the calculated STUB1 molecular weight of 34.9 kDa. Signal intensity varies among samples, with stronger bands in 293T, MCF-7, and rodent brain lysates. Faint additional bands are visible in selected lanes.



STUB1 Antibody 19S73 WB Analysis of HEK293 WT and STUB1 KO Cells. Western blot analysis of wild-type (WT) and STUB1-knockout (KO) HEK293 cell lysates using CHIP Rabbit Monoclonal Antibody clone 19S73. A prominent band at approximately 35 kDa is detected in WT lysate but is absent in the KO sample, supporting STUB1-specific detection at the expected molecular weight. An additional band near 45 kDa remains visible in both samples and has not been identified. Beta-tubulin bands of comparable intensity serve as loading controls.

Description

STUB1 Antibody 19S73 / CHIP Rabbit Monoclonal Antibody recognizes STUB1, an E3 ubiquitin-protein ligase that regulates protein quality control through interactions with molecular chaperones and the ubiquitin-proteasome system. Also known as CHIP (carboxyl terminus of Hsc70-interacting protein), STUB1 helps determine whether chaperone-associated proteins undergo further folding attempts or are targeted for degradation. This activity places STUB1 at an important intersection between protein folding, ubiquitination, and cellular responses to proteotoxic stress.

STUB1 contains an N-terminal tetratricopeptide repeat (TPR) domain that mediates interactions with molecular chaperones, including HSP70 and HSP90, and a C-terminal U-box domain responsible for E3 ubiquitin ligase activity. Through its association with ubiquitin-conjugating enzymes, STUB1 promotes the attachment of ubiquitin to selected substrate proteins. These modifications can direct damaged, misfolded, or regulatory proteins toward proteasomal degradation, although the consequences depend on substrate identity and ubiquitin chain architecture. STUB1 also functions as a cochaperone, influencing chaperone activity and substrate handling independently of its ubiquitination function.

The protein contributes to cellular proteostasis by limiting the accumulation of potentially harmful proteins and regulating the turnover of selected signaling molecules. STUB1 has been implicated in responses to oxidative stress, mitochondrial dysfunction, and protein aggregation. Its interactions with disease-associated proteins have attracted particular interest in neurodegeneration research, where impaired protein clearance can contribute to progressive cellular dysfunction. STUB1 also influences pathways associated with cell survival, apoptosis, and inflammatory signaling, reflecting its ability to regulate multiple protein substrates.

Pathogenic variants in STUB1 are associated with neurological disorders, including spinocerebellar ataxia type 16 (SCAR16) and certain forms of spinocerebellar ataxia type 48 (SCA48). These conditions highlight the importance of functional STUB1 in maintaining neuronal protein homeostasis. STUB1 Antibody 19S73 provides a reagent for investigating CHIP protein expression and the molecular mechanisms connecting chaperone-mediated quality control, ubiquitin-dependent degradation, and neurological disease.

For an alternative antibody with knockout validation and broader experimental characterization, see our STUB1 Antibody targeting CHIP, an E3 ubiquitin ligase involved in cellular protein quality control.

Application Notes

Optimal dilution of the STUB1 Antibody 19S73 / CHIP Rabbit Monoclonal Antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human E3 ubiquitin-protein ligase CHIP protein was used as the immunogen for the STUB1 Antibody 19S73.

Storage

The STUB1 Antibody 19S73 can be stored at -20oC.

Alternate Names

CHIP antibody, CHIP E3 ubiquitin ligase antibody, STIP1 homology and U-box containing protein 1 antibody, carboxyl terminus of Hsc70-interacting protein antibody, C terminus of Hsc70-interacting protein antibody, E3 ubiquitin-protein ligase CHIP antibody

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