


Product datasheet

Anti-STUB1/CHIP antibody [EPR4448] ab109103

Recombinant RabMAb

★★★★☆ [2 Abreviews](#) [3 References](#) [3 Images](#)

Overview

Product name	Anti-STUB1/CHIP antibody [EPR4448]
Description	Rabbit monoclonal [EPR4448] to STUB1/CHIP
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF Unsuitable for: Flow Cyt or IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HeLa, MCF7, ECV304, and 293T cell lysates; HeLa cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4448

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab109103 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 35 kDa.
ICC/IF		1/100 - 1/250.

Application notes Is unsuitable for Flow Cyt or IHC-P.

Target

Function E3 ubiquitin-protein ligase which targets misfolded chaperone substrates towards proteasomal degradation. 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.

Tissue specificity Highly expressed in skeletal muscle, heart, pancreas, brain and placenta. Detected in kidney, liver and lung.

Pathway Protein modification; protein ubiquitination.

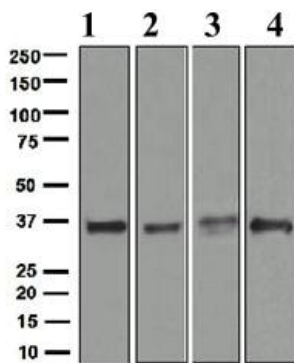
Sequence similarities Contains 3 TPR repeats.
Contains 1 U-box domain.

Domain The TPR domain is essential for ubiquitination mediated by UBE2D1.

Post-translational modifications Phosphorylated upon DNA damage, probably by ATM or ATR.
Auto-ubiquitinated; mediated by UBE2D1 and UBE2D2.

Cellular localization Cytoplasm.

Images



Western blot - Anti-STUB1/CHIP antibody [EPR4448] (ab109103)

All lanes : Anti-STUB1/CHIP antibody [EPR4448] (ab109103) at 1/1000 dilution

Lane 1 : HeLa cell lysate

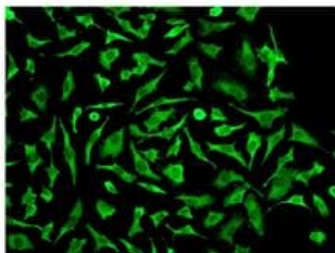
Lane 2 : MCF7 cell lysate

Lane 3 : ECV304 cell lysate

Lane 4 : 293T cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 35 kDa



Immunocytochemistry/ Immunofluorescence - Anti-STUB1/CHIP antibody [EPR4448] (ab109103)

Immunofluorescent staining of STUB1/CHIP in HeLa cells using ab109103 at 1/100 dilution.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-STUB1/CHIP antibody [EPR4448] (ab109103)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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