


Product datasheet

Anti-STUB1 / CHIP antibody ab2482

3 References 1 Image

Overview

<b>Product name</b>	Anti-STUB1 / CHIP antibody
<b>Description</b>	Goat polyclonal to STUB1 / CHIP
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Chimpanzee 
<b>Immunogen</b>	Synthetic peptide corresponding to Human STUB1/ CHIP aa 291-303 (C terminal). Sequence: DAFISENGWVEDY  <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	Recombinant Human STUB1 / CHIP protein ( <a href="#">ab82791</a> ) can be used as a positive control in WB.
<b>General notes</b>	Previously labelled as STUB1.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab2482** in the following tested applications.

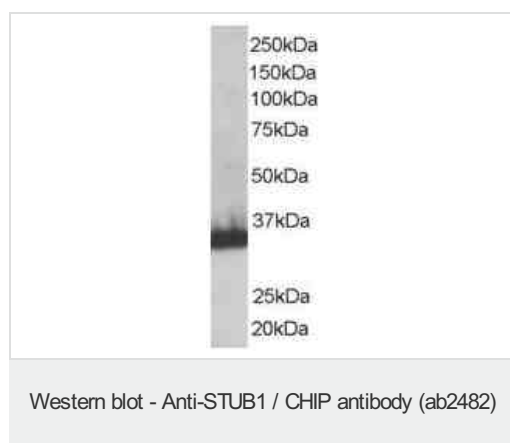
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration. Peptide ELISA: Antibody detection limit dilution 1:32,000.
WB		Use a concentration of 1 - 3 µg/ml. Predicted molecular weight: 35 kDa.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Highly expressed in skeletal muscle, heart, pancreas, brain and placenta. Detected in kidney, liver and lung.
<b>Pathway</b>	Protein modification; protein ubiquitination.
<b>Sequence similarities</b>	Contains 3 TPR repeats. Contains 1 U-box domain.
<b>Domain</b>	The TPR domain is essential for ubiquitination mediated by UBE2D1.
<b>Post-translational modifications</b>	Phosphorylated upon DNA damage, probably by ATM or ATR. Auto-ubiquitinated; mediated by UBE2D1 and UBE2D2.
<b>Cellular localization</b>	Cytoplasm.

## Images



Anti-STUB1 / CHIP antibody (ab2482) at 1 µg/ml + Human Heart lysate (RIPA buffer, 35ug total protein per lane).

**Predicted band size:** 35 kDa

Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

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