

Datasheet for ABIN129522 anti-ULP1 antibody

3 Images



#### Overview

Quantity:	500 µg
Target:	ULP1
Reactivity:	Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ULP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Fluorescence Microscopy (FM)
Product Details	
Purpose:	ULP1 Antibody
Immunogen:	Immunogen: This purified antibody was prepared from rabbit serum after repeated
	immunizations with recombinant yeast ULP-1 protein.

	Immunogen Type: Recombinant Protein
Isotype:	IgG
Cross-Reactivity (Details):	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum.
Characteristics:	Synonyms: rabbit anti-ULP1 antibody, rabbit anti-ULP-1 antibody, Probable sentrin specific protease antibody, Ubiquitin Like Protease antibody
Purification:	This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN129522 | 03/28/2025 | Copyright antibodies-online. All rights reserved.

Target Details	
Target:	ULP1
Alternative Name:	ULP1
Background:	Background: ULP-1, ubiquitin-like protein-specific protease 1, initially processes Smt3 and also
	acts as a deconjugating enzyme for Smt3 [Saccharomyces cerevisiae (Baker's yeast)].
	Covalent modification of cellular proteins by the ubiquitin-like modifier SUMO (small ubiquitin-
	like modifier) regulates various cellular processes, such as nuclear transport, signal
	transduction, stress responses and cell cycle progression. But, in contrast to ubiquination,
	sumoylation does not tag proteins for degradation by the 26S proteasome, but rather seems to
	enhance stability or modulate their subcellular compartmentalization. Once covalently
	attached to cellular targets, SUMO regulates protein:protein and protein:DNA interactions, as
	well as localization and stability of the target protein. Sumoylation occurs in most eukaryotic
	systems, and SUMO is highly conserved from yeast to humans. Where invertebrates have only
	a single SUMO gene termed SMT3, three members of the SUMO family have been identified in
	vertebrates: SUMO-1 and the close homologues SUMO-2 and SUMO-3. Three distinct steps
	can be distinguished in the SUMO modification pathway: 1) activation of SUMO, 2) transfer of
	SUMO to the conjugating enzyme, and 3) substrate modification. Since SUMO is synthesized as
	a precursor protein, a maturation step precedes the activation reaction. In yeast, C-terminal
	processing of the SUMO precursor is mediated by the processing protease Ulp1, which has an
	additional role in the deconjugation of SUMO-modified substrates. Mature SUMO is activated by
	SUMO-activating enzyme, an $E_1$ -like heterodimeric protein complex composed of Uba2 and
	Aos1. Ulp1 function has provided evidence that SUMO modification in yeast, as has been
	suspected for vertebrates, plays an important role in nucleocytoplasmic trafficking.
Gene ID:	856087, 6325237
UniProt:	Q02724

# Application Details

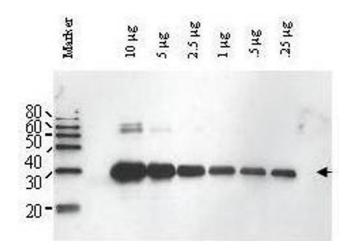
Application Notes:	Application Note: This purified polyclonal antibody reacts with yeast ULP-1 by western blot and
	ELISA. Although not tested, this antibody is likely functional in immunohistochemistry and
	immunoprecipitation. Specific conditions for reactivity should be optimized by the end user.
	Expect a band approximately 72.4 kDa in size corresponding to yeast ULP-1 by western blotting
	in the appropriate lysate or extract.
	Western Blot Dilution: 1:500 - 1:2,000
	ELISA Dilution: 1:4,000 - 1:20,000
	IF Microscopy Dilution: User Optimized

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN129522 | 03/28/2025 | Copyright antibodies-online. All rights reserved.

## Application Details

	Other: User Optimized
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	5.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

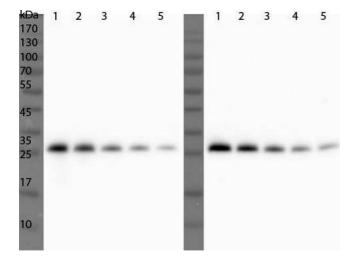
## Images



## Western Blotting

**Image 1.** Western blot using Affinity Purified anti-Yeast ULP-1 antibody shows detection of a truncated ULP-1 fusion protein (arrowhead). Increasing concentrations of yeast ULP-1 were run on a SDS-PAGE, transferred onto nitrocellulose, and blocked for 1 hour with 5% non-fat dry milk in TTBS, and probed overnight at 4°C with a 1:1000 dilution of anti-yULP-1 antibody in 5% non-fat dry milk in TTBS. Detection occurred using a 1:1,000 dilution of HRP-

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN129522 | 03/28/2025 | Copyright antibodies-online. All rights reserved.



labeled Donkey anti-Rabbit IgG for 1 hour at room temperature. A chemiluminescence system was used for signal detection (Roche) using a 3-sec exposure time.

#### Western Blotting

**Image 2.** Western Blot of Rabbit Anti-ULP1 Antibody. (in duplicate) Lane 1: 50ng ULP1CD. Lane 2: 25ng ULP1CD. Lane 3: 12.5ng ULP1CD. Lane 4: 6.25ng ULP1CD. Lane 5: 3.13ng ULP1CD. Blocking: 5% BLOTTO in PBST. Primary Antibody: Anti-ULP1 at 1:1000 dilution O/N at 4°C. Secondary Antibody: Goat Anti-Rabbit HRP 1:5000 RT for 30 min.

#### Western Blotting

**Image 3.** Western blot using Affinity Purified anti-Yeast ULP-1 antibody was used to confirm the specificity of the antibody. SDS-PAGE of 2 µg of ULP-1 homologues from other sources (lanes 2 through 9). After blocking for 1 hour with 5% non-fat dry milk in TTBS, the blot was probed overnight at 4°C with a 1:1,000 dilution of anti-yULP1 antibody detected as above. This antibody is specific for yeast ULP1 and does not react with ULP1 from related sources including human SENP.



Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN129522 | 03/28/2025 | Copyright antibodies-online. All rights reserved.