

Datasheet for 600-401-482**HAUSP Antibody****Overview**

Description:	Anti-HAUSP (RABBIT) Antibody - 600-401-482
Item No.:	600-401-482
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	HAUSP (also known as deubiquitinating enzyme 7, herpes virus associated ubiquitin specific protease, TEF1, ubiquitin carboxyl terminal hydrolase 7, ubiquitin specific protease 7, ubiquitin thiolesterase 7, and USP7) is a novel p53 interacting protein. HAUSP was identified by mass spectrometry of affinity purified p53 associated factors by Li et al. HAUSP strongly stabilizes p53, even in the presence of excess MDM2, and also induces p53-dependent cell growth repression and apoptosis. HAUSP has an intrinsic enzymatic activity that specifically de-ubiquitinates p53 both in vivo and in vitro. Expression of a catalytically inactive point mutation of HAUSP in cells increased the levels of p53 ubiquitination and also destabilized p53. Li et al concluded that their findings revealed an important mechanism by which p53 can be stabilized by direct de-ubiquitination and also implied that HAUSP may function as a tumor suppressor in vivo through the stabilization of p53.
Synonyms:	rabbit anti-HAUSP antibody, USP7, Deubiquitinating enzyme 7 antibody, Herpes virus associated ubiquitin specific protease antibody, Ubiquitin carboxyl terminal hydrolase 7 antibody, Ubiquitin thioesterase 7, Ubiquitin-specific-processing protease 7
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	USP7
Reactivity:	Human, Mouse

Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the amino terminus of human HAUSP protein.
Purity/Specificity:	This affinity purified antibody is directed against human HAUSP protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with HAUSP protein from human, rat, mouse, chimpanzee, bovine and dog based on 100% homology with the immunizing sequence. Expect partial reactivity with HAUSP from chicken (92%, 11/12) and zebrafish (83%, 10/12) sources based on partial sequence homology. Reactivity against homologues from other sources is not known.
Relevant Links:	• NCBI - 150378533 • UniProtKB - Q93009 • GenelD - 7874

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 130 kDa in size corresponding to HAUSP protein by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:15,000 - 1:60,000
WB:	1:500 - 1:2,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

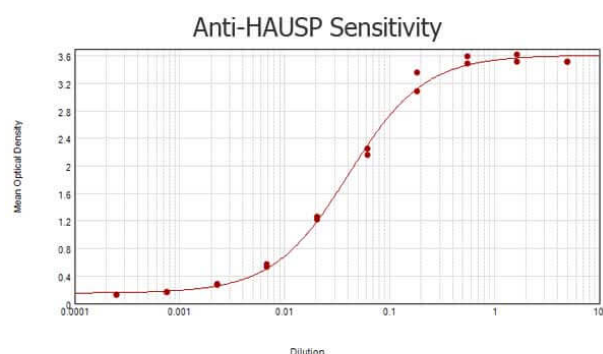
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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.

Expiration: Expiration date is one (1) year from date of receipt.

Images



ELISA

ELISA results of purified Rabbit anti-HAUSP antibody tested against BSA-conjugated peptide of immunizing peptide. Each well was coated in duplicate with 0.1µg of conjugate. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using 3% fish gelatin as blocking buffer, Goat anti-Rabbit IgG Antibody Peroxidase Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) (p/n 611-103-122) and TMB substrate (p/n TMBE-1000).



Western Blot

Western blot using Rockland's affinity purified anti-HAUSP antibody shows detection of HAUSP in various cell lysates at 130 kDa. Lane 1: HeLa nuclear extract (p/n W09-001-367), Lane 2: HeLa (p/n W09-000-364), Lane 3: A431 (p/n W09-000-361), Lane 4: MCF7 (p/n W09-00-360), Lane 5: 3T3 (W10-000-358). The antibody is blocked by pre-incubation with the immunizing peptide (lanes 6 - 10) using the same lysates. A 1:500 dilution of the primary antibody was used for detection followed by a 1:5,000 dilution of HRP Gt-a-Rabbit IgG. Exposure time was 30 s.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.