

Product Datasheet

LONP1 Antibody - Azide and BSA Free H00009361-D01P

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 3

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H00009361-D01P

LONP1 Antibody - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH 7.4)

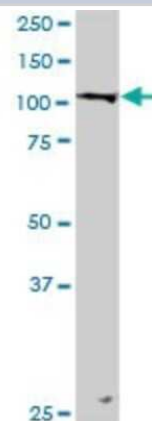
Product Description	
Description	Novus Biologicals Rabbit LONP1 Antibody - Azide and BSA Free (H00009361-D01P) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-LONP1 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	9361
Gene Symbol	LONP1
Species	Human, Mouse
Specificity/Sensitivity	LONP1 - Ion peptidase 1, mitochondrial,
Immunogen	LONP1 (NP_004784.2, 1 a.a. - 959 a.a.) full-length human protein. MAASTGYVRLWGAARCWVLRPMLAAAGGRVPTAAGAWLLRGQRTCDASPP WALWGRGPAIGGQWRGFWEASSRGGGAFSGGEDASEGGAEEGAGGAGGS AGAGEGPVITALTPMTIPDVFPPLPLIAITRNPVFPFRFIKIIIEVKNKLVELLRRKV RLAQPYYGVFLKRDDSNEVDVVEESLDEIYHTGTFAQIHEMQDLGDKLRMIVMG HRRVHISRQLEVEPEEPEAENKHKPRRKS KR GKKEAEDELSARHPAELAMEPT PELPAEVLMEVENNVHEDFQVTEEVKALTAIEVKTIRDIIALNPLYRESVLQMM QAGQRVVDNPIYLSDMGAALTGAESHELQDVLEETNIPKRLYKALSLLKKEFEL SKLQQRLGREVEEKIKQTHRKYLLQEQLKIIKELGLEKDDKDAIEEKFRERLKE LVVPKHVMDVVDEELSKLGLLDNHSSEFNVTRNYLDWLTSIPWGKYSNENLDL ARAQAVLEEDHYGMEDVKKRILEFIAVSQLRGSTQGKILCFYGGPPGVGKTSIAR SIARALNREYFRFSVGGMTDVAEIKGHRRTYVGAMPKIIQCLKKTKTENPLIID EVDKIGRGYQGDPSALLELLDPEQANFLDHYLDVPVDLSKVLFICTANVTDTI PEPLRDRMEMINVSGYVAQEKLAIERYLVPQARALCGLDESKAKLSSDVLTLI KQYCRESGVRNLQKQVEKVLKRSAYKIVSGEAESEVETPENLQDFVGKPVFTV ERMYDVTTPGVVMGLAWTAMGGSTLTVETSLRRPQDKDAKGDGKSLEVTG QLGEVMKESARIAYTFARAFMQHAPANDYLVTSIHHLHVPEGATPKDGPAG CTIVTALLSLAMGRPVRQNLAMTGEVSLTGKILPVGGIKEKTIAAKRAGVTCIVLP AENKKDFYDLAAFITEGLEVHFVEHYREIFDIAFPDEQAEALAVER
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500
Application Notes	Antibody reactive against tissue lysate and transfected lysate for western blot. It has also been used for ELISA.

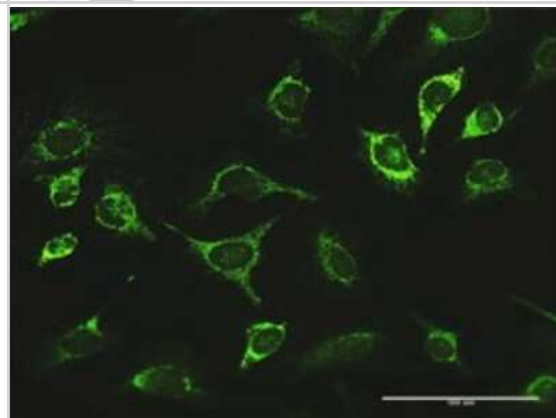


Images

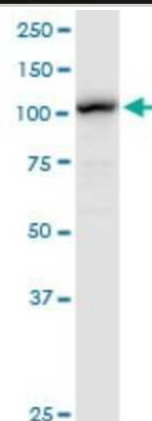
Western Blot: LONP1 Antibody [H00009361-D01P] - Analysis of LONP1 expression in mouse kidney.



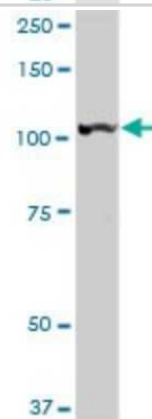
Immunocytochemistry/Immunofluorescence: LONP1 Antibody [H00009361-D01P] - Analysis of antibody to LONP1 on HeLa cell. Antibody concentration 10 ug/ml.



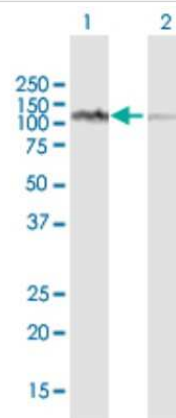
Western Blot: LONP1 Antibody [H00009361-D01P] - Analysis of LONP1 expression in HepG2.



Western Blot: LONP1 Antibody [H00009361-D01P] - Analysis of LONP1 expression in human kidney.



Western Blot: LONP1 Antibody [H00009361-D01P] - Analysis of LONP1 expression in transfected 293T cell line by LONP1 polyclonal antibody. Lane 1: LONP1 transfected lysate(106.50 KDa). Lane 2: Non-transfected lysate.



Publications

Lee YK, Lim JJ, Jeoun UW et al. Lactate-mediated mitoribosomal defects impair mitochondrial oxidative phosphorylation and promote hepatoma cell invasiveness. *J Biol Chem* 2017-10-04 [PMID: 28978646]

Strauss KA, Jinks RN, Puffenberger EG et al. CODAS Syndrome Is Associated with Mutations of LONP1, Encoding Mitochondrial AAA(+) Lon Protease *Am. J. Hum. Genet.* 2015-01-08 [PMID: 25574826] (WB, Human)

Details:

LONP1/Lon antibody used at 1:100 dilution for WB on 40 ug proteins extracted from Epstein-Barr virus -transformed B-lymphoblastoid cell lines/LCLs that were generated from probands and their parents from a family affected with CODAS-syndrome, a multi-system developmental disorder characterized by cerebral, ocular, dental, auricular, and skeletal anomalies (see full text for sample preparation details, data in Figure 5A). Antibody also used for WB on HeLa cells having stably integrated anhydrotetracycline /ATc-inducible shRNA targeting Lon grown in the presence or absence of ATc, as well as on HEK293T and PC3 cells transiently transfected or not with siRNA- LON (Figure 7B).

Teng H, Wu B, Zhao K et al. Oxygen-sensitive mitochondrial accumulation of cystathionine beta-synthase mediated by Lon protease. *Proc Natl Acad Sci U S A* 2013-07-30 [PMID: 23858469] (WB, Human, Mouse)



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to H00009361-D01P

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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