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# anti-LONP1 antibody (C-Term)

**Images** 



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Quantity:	100 μL	
Target:	LONP1	
Binding Specificity:	C-Term	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This LONP1 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)	

#### **Product Details**

Immunogen:	A synthesized peptide derived from human LONP1, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	LONP1 Antibody detects endogenous levels of total LONP1.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).

### **Target Details**

Target:	LONP1	

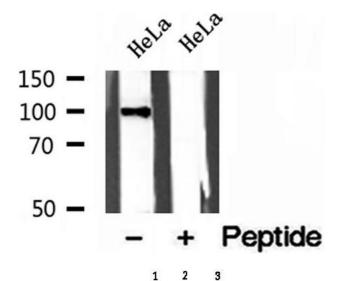
## Target Details

LONP1 (LONP1 Products)	
Description: ATP-dependent serine protease that mediates the selective degradation of	
misfolded, unassembled or oxidatively damaged polypeptides as well as certain short-lived	
regulatory proteins in the mitochondrial matrix. May also have a chaperone function in the	
assembly of inner membrane protein complexes. Participates in the regulation of mitochondria	
gene expression and in the maintenance of the integrity of the mitochondrial genome. Binds to	
mitochondrial promoters and RNA in a single-stranded, site-specific, and strand-specific	
manner. May regulate mitochondrial DNA replication and/or gene expression using site-	
specific, single-stranded DNA binding to target the degradation of regulatory proteins binding to	
adjacent sites in mitochondrial promoters (PubMed:12198491, PubMed:15870080,	
PubMed:17420247, PubMed:8248235). Endogenous substrates include mitochondrial	
steroidogenic acute regulatory (StAR) protein, helicase Twinkle (TWNK) and the large ribosoma	
subunit protein bL32m. bL32m is protected from degradation by LONP1 when it is bound to a	
nucleic acid (RNA), but TWNK is not (PubMed:17579211, PubMed:28377575).	
Gene: LONP1	
100 kDa	
9361	
P36776	
WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500	
For Research Use only	
Liquid	
1 mg/mL	
Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %	
glycerol.	
glycerol.	

#### Handling

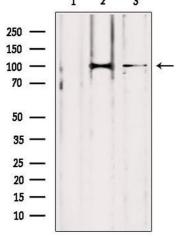
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

#### **Images**



#### **Western Blotting**

**Image 1.** Western blot analysis of extracts of HeLa cells, using LONP1 antibody.



#### **Western Blotting**

**Image 2.** Western blot analysis of extracts from various samples, using LONP1 antibody. Lane 1: Hela treated with blocking peptide. Lane 2: Hela; Lane 3: Mouse Myeloma cell;



#### **Immunohistochemistry**

**Image 3.** ABIN6272963 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at  $22_i\tilde{a}C$ . An HRP conjugated goat anti-rabbit antibody was used as the secondary