

Anti-LONP1/Lon antibody ab103809

★★★★★ [2 Abreviews](#) [24 References](#) [4 Images](#)

Overview

Product name	Anti-LONP1/Lon antibody
Description	Rabbit polyclonal to LONP1/Lon
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant full length protein corresponding to Human LONP1/Lon aa 1-959.
Positive control	Human kidney, Mouse kidney, HepG2, transfected 293T cell line
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.4 Constituent: PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab103809 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
WB	★★★★★ (2)	Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 106 kDa.

Target

Function

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 mitochondrial 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. Endogenous substrates include mitochondrial steroidogenic acute regulatory (StAR) protein.

Tissue specificity

Duodenum, heart, lung and liver, but not thymus.

Involvement in disease

CODAS syndrome

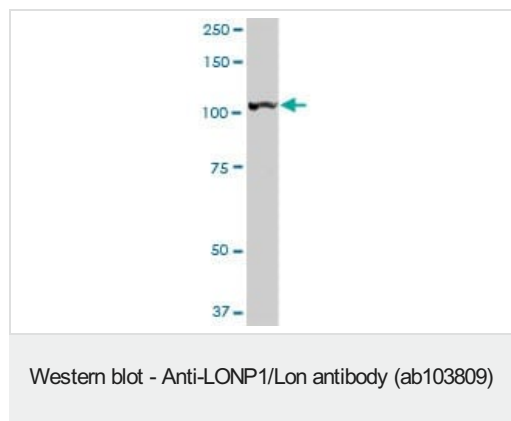
Sequence similarities

Belongs to the peptidase S16 family.
Contains 1 Lon domain.

Cellular localization

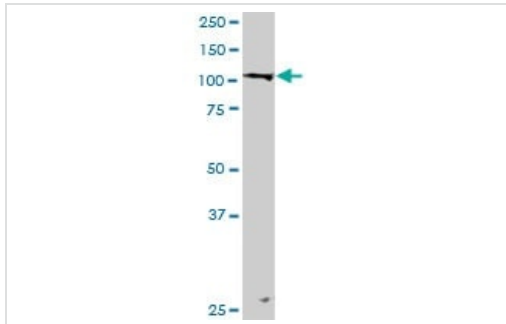
Mitochondrion matrix.

Images



Anti-LONP1/Lon antibody (ab103809) at 5 µg/ml + Human kidney tissue lysate at 50 µg

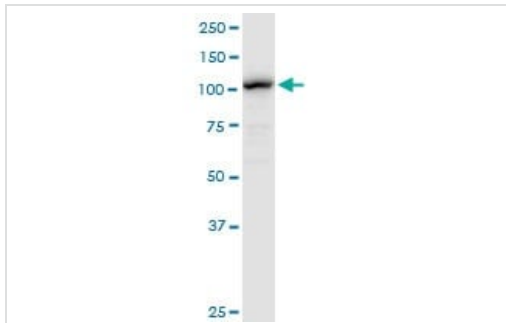
Predicted band size: 106 kDa



Western blot - Anti-LONP1/Lon antibody (ab103809)

Anti-LONP1/Lon antibody (ab103809) at 5 µg/ml + Mouse kidney tissue lysate at 50 µg

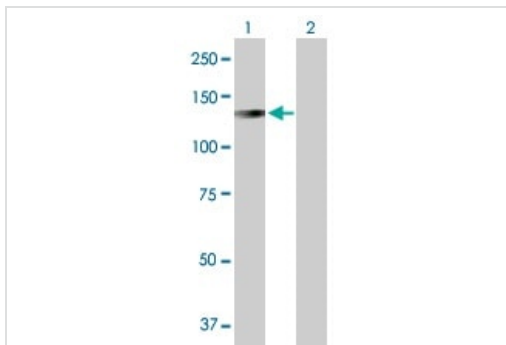
Predicted band size: 106 kDa



Western blot - Anti-LONP1/Lon antibody (ab103809)

Anti-LONP1/Lon antibody (ab103809) at 5 µg/ml + HepG2 cell lysate at 50 µg

Predicted band size: 106 kDa



Western blot - Anti-LONP1/Lon antibody (ab103809)

All lanes : Anti-LONP1/Lon antibody (ab103809) at 5 µg/ml

Lane 1 : LONP1 transfected 293T cell lysate

Lane 2 : Non-transfected 293T cell lysate

Lysates/proteins at 25 µg per lane.

Predicted band size: 106 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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