

LONP1 Rabbit pAb

Catalog No.: A4293 **9 Publications**

Basic Information

Observed MW

106 kDa

Calculated MW

86 kDa/100 kDa/106 kDa

Category

Primary antibody

Applications

WB,IP,IF/ICC,IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

Background

This gene encodes a mitochondrial matrix protein that belongs to the Lon family of ATP-dependent proteases. This protein mediates the selective degradation of misfolded, unassembled or oxidatively damaged polypeptides in the mitochondrial matrix. It may also have a chaperone function in the assembly of inner membrane protein complexes, and participate in the regulation of mitochondrial gene expression and maintenance of the integrity of the mitochondrial genome. Decreased expression of this gene has been noted in a patient with hereditary spastic paraplegia (PMID:18378094). Alternatively spliced transcript variants have been found for this gene.

Recommended Dilutions

WB	1:500 - 1:2000
IP	0.5 µg - 4 µg antibody for 200 µg - 400 µg extracts of whole cells
IF/ICC	1:50 - 1:200
IHC-P	1:50 - 1:200
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

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Immunogen Information

Gene ID

9361

Swiss Prot

P36776

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

LON; LONP; PIM1; hLON; LonHS; CODASS; PRSS15; LONP1

Product Information

Source

Rabbit

Isotype

IgG

Purification

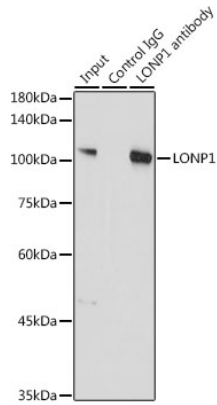
Affinity purification

Storage

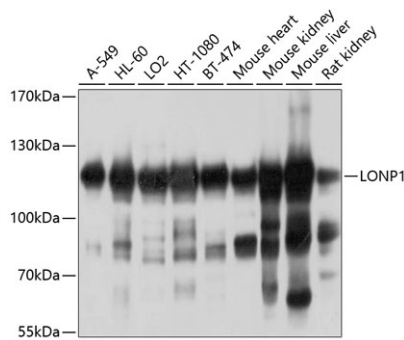
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

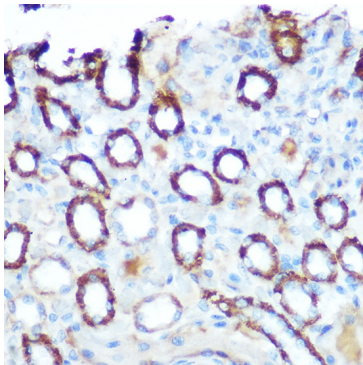
Validation Data



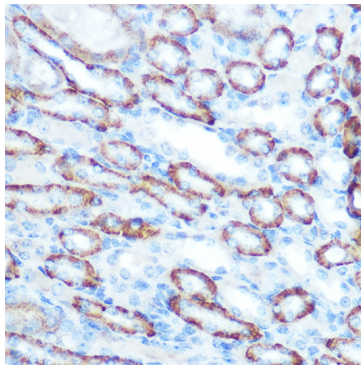
Immunoprecipitation analysis of 300 µg extracts of A-549 cells using 3 µg LONP1 antibody (A4293). Western blot was performed from the immunoprecipitate using LONP1 (A4293) at a dilution of 1:1000.



Western blot analysis of various lysates using LONP1 Rabbit pAb (A4293) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 5s.



Immunohistochemistry analysis of paraffin-embedded Rat kidney using LONP1 Rabbit pAb (A4293) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney using LONP1 Rabbit pAb (A4293) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.