

Recombinant Human LONP1 cell lysate

Cat. No. LONP1-1423HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Description	This gene encodes a mitochondrial matrix protein in the Lon family of ATP-dependent proteases. A similar E. coli protein regulates gene expression by targeting specific regulatory proteins for degradation. This protein binds a specific sequence in the light and heavy chain promoters of the mitochondrial genome which are involved in regulation of DNA replication and transcription.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	LONP1 lon peptidase 1, mitochondrial [Homo sapiens]
Official Symbol	LONP1
Synonyms	LONP1; lon peptidase 1, mitochondrial; protease, serine, 15 , PRSS15; lon protease homolog, mitochondrial; hLON; LonHS; PIM1; serine protease 15; protease, serine, 15; Lon protease-like protein; hLON ATP-dependent protease; mitochondrial lon peptidase 1; mitochondrial lon protease-like protein; mitochondrial ATP-dependent

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protease Lon; LON; LONP; PRSS15; MGC1498;

Gene ID [9361](#)

mRNA Refseq [NM_004793](#)

Protein Refseq [NP_004784](#)

MIM [605490](#)

UniProt ID [P36776](#)

**Chromosome
Location** 19p13.2

Function

ADP binding; ATP binding; ATP-dependent peptidase activity; ATPase activity; DNA polymerase binding; G-quadruplex DNA binding; mitochondrial heavy strand promoter anti-sense binding; NOT mitochondrial heavy strand promoter sense binding; mitochondrial light strand promoter anti-sense binding; NOT mitochondrial light strand promoter sense binding; nucleotide binding; peptidase activity; protein binding; sequence-specific DNA binding; serine-type endopeptidase activity; single-stranded DNA binding; single-stranded RNA binding;

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