



## Mouse anti-Human LONP1 monoclonal antibody, clone 4C3 (CABT-B10583)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Immunogen</b>	PRSS15 (NP_004784, 661 a.a. ~ 762 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	4C3
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, sELISA, ELISA
<b>Sequence Similarities</b>	YVAQEKLIAEYLVLPQARALCGLDESKAKLSSDVLTLLIKQYCRESGVRLNLQKQVEKVL RKSAYKIVSGAESVEVTPENLQDFVGKPVFTVERMYDVTP*
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	In 1x PBS, pH 7.2
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

### BACKGROUND

<b>Introduction</b>	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,
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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. [provided by RefSeq, Feb 2013]

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<b>Keywords</b>	LONP1; Lon peptidase 1, mitochondrial; LON; LONP; PIM1; hLON; LonHS; PRSS15; Lon protease homolog, mitochondrial; LONP; serine protease 15; Lon protease-like protein; hLON ATP-dependent protease; mitochondrial Lon protease-like protein; mitochondrial ATP-dependent protease Lon;
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## GENE INFORMATION

Entrez Gene ID	<a href="#">9361</a>
UniProt ID	<a href="#">P36776</a>
Function	ADP binding; ATP binding; ATP-dependent peptidase 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; nucleoside-triphosphatase activity; 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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