

For Research Use Only

LONP1 Recombinant antibody

Catalog Number: 83552-2-RR



Basic Information

Catalog Number: 83552-2-RR	GenBank Accession Number: BC000235	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 9361	CloneNo.: 240460G10
Source: Rabbit	UNIPROT ID: P36776	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG	Full Name: lon peptidase 1, mitochondrial	
Immunogen Catalog Number: AG7196	Calculated MW: 106 kDa	
	Observed MW: 100 kDa	

Applications

Tested Applications: WB, FC (Intra), ELISA	Positive Controls: WB : HeLa cells, HepG2 cells, Jurkat cells, mouse brain tissue, rat brain tissue
Species Specificity: human, mouse, rat	

Background Information

LONP1 (Lon protease homolog, mitochondrial) is also named as LONP, LONHS, HLON, LON, PRSS15, PIM1, MGC1498 and belongs to the peptidase S16 family. It seems to play a major role in the elimination of oxidatively modified proteins in the mitochondrial matrix (PMID:18021745). LONP1, also a nuclearly encoded and mitochondrially located stress-responsive protease, is involved in heme-mediated ALAS-1 turnover (PMID:21659532). It recognizes specific surface determinants or folds, initiates proteolysis at solvent-accessible sites, and generates unfolded polypeptides that are then progressively degraded (PMID:15870080). LONP1 has some isoforms with the MW of 106 kDa, 100 kDa and 86 kDa.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

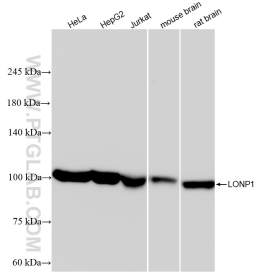
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E: Proteintech-CN@ptglab.com

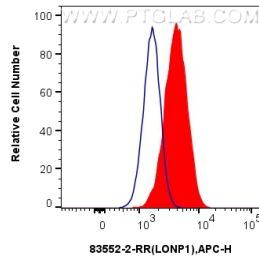
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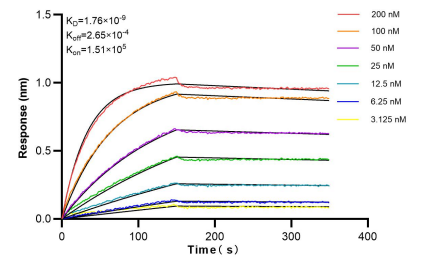
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83552-2-RR (LONP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1×10^6 U-251 cells were intracellularly stained with 0.25 μ g LONP1 Recombinant antibody (83552-2-RR, Clone:240460G10) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biacore interferometry (BLI) kinetic assays of 83552-2-RR against Human LONP1 were performed. The affinity constant is 1.76 nM.