For Research Use Only

LONP2 Recombinant monoclonal antibody

Catalog Number:86291-2-RR

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Basic Information

Catalog Number:
86291-2-RR

Size:
100ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12650

GenBank Accession Number:
BC093910

GeneID (NCBI):
83752

UNIPROT ID:
Q86WA8

Full Name:
lon peptidase 2, peroxisomal

Calculated MW:
852 aa, 95 kDa

Observed MW:
95 kDa

Purification Method:
Protein A purification

CloneNo.:
251061E10

Recommended Dilutions:
WB: 1:2000-1:10000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse

Positive Controls:

WB : Jurkat cells, K-562 cells, U2OS cells, SH-SY5Y cells, HUVEC cells, mouse kidney tissue

Background Information

LONP2 (Lon Peptidase 2, Peroxisomal) is an important ATP-dependent protease. It is primarily located in peroxisomes and is responsible for maintaining the proteostasis of this organelle. By degrading misfolded proteins and selectively regulating metabolic enzymes, LONP2 plays a central role in maintaining peroxisomal proteostasis and metabolic balance. Dysfunction of LONP2 is closely related to a variety of human diseases, including peroxisomal disorders, cancer, and neurodegenerative diseases.

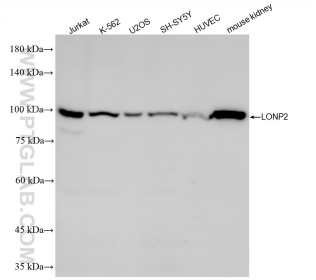
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

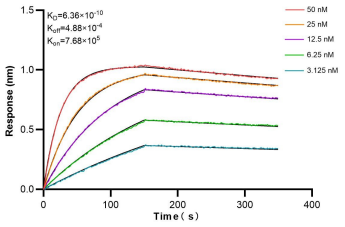
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86291-2-RR (LONP2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86291-2-RR against Human LONP2 were performed. The affinity constant is 0.636 nM.