

# LONP2 Recombinant monoclonal antibody

Catalog Number: 86291-2-RR

## Basic Information

**Catalog Number:**

86291-2-RR

**Concentration:**

1000 µg/ml

**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:**

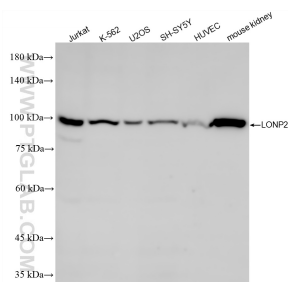
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

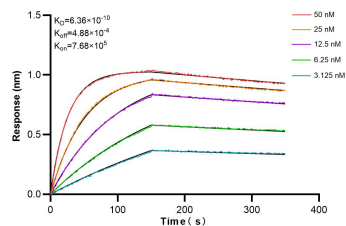
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

## 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.