bs-4245R **[Primary Antibody]**

LONP1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 9361 **SWISS:** P36776

Target: LONP1

Immunogen: KLH conjugated synthetic peptide derived from human LONP1: 361-460/959.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: LONP1 encodes a mitochondrial matrix protein in the Lon family of ATP dependent proteases. It 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.

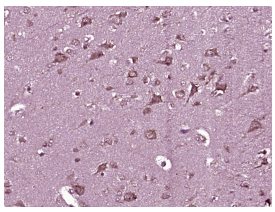
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human (predicted: Mouse, Rat, Pig, Cow, Chicken, Dog, Horse)

Predicted MW.: 98 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LONP1) Polyclonal Antibody, Unconjugated (bs-4245R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=9.207]** Muñoz Vitor Rosetto. et al. Effects of short-term endurance and strength exercise in the molecular regulation of skeletal muscle in hyperinsulinemic and hyperglycemic Slc2a4+/− mice. CELL MOL LIFE SCI. 2023 May;80(5):1-16 WB ;Mouse. 37052684
- **[IF=8.44]** Zai, Zhuoyan. et al. Estrogen antagonizes ASIC1a-induced chondrocyte mitochondrial stress in rheumatoid arthritis. J TRANSL MED. 2022 Dec;20(1):1-14 IF ;Rat. 36463203
- **[IF=8.1]** Rodrigo Stellzer Gaspar. et al. Physical exercise elicits UPRmt in the skeletal muscle: The role of c-Jun N-terminal kinase. MOL METAB. 2023 Dec;78:101816 WB ;Mouse. 37821006
- **[IF=7]** Barbara M. Crisol. et al. Excessive Exercise Elicits Poly (ADP-Ribose) Polymerase-1 Activation and Global Protein PARylation Driving Muscle Dysfunction and Performance Impairment. MOL METAB. 2025 Apr;:102135 WB ;Mouse.

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- **[IF=3.998]** Renata R. Braga. et al. Exercise alters the mitochondrial proteostasis and induces the mitonuclear imbalance and UPR mt in the hypothalamus of mice. Sci Rep-Uk. 2021 Feb;11(1):1-13 WB ;Mouse. 33589652