bs-0191R **[Primary Antibody]**

HSP60 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3329 **SWISS:** P10809

Target: HSP60

Immunogen: KLH conjugated synthetic peptide derived from human HSP60: 501-573/573.

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: This gene encodes a member of the chaperonin family. The encoded mitochondrial protein may function as a signaling molecule in the innate immune system. This protein is essential for the folding and assembly of newly imported proteins in the mitochondria. This gene is adjacent to a related family member and the region between the 2 genes functions as a bidirectional promoter. Two pseudogenes, both located on chromosome 8, have been associated with this gene. Two transcript variants encoding the same protein have been identified for this gene. Mutations associated with this gene cause autosomal recessive spastic paraplegia 13.

Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100-500)

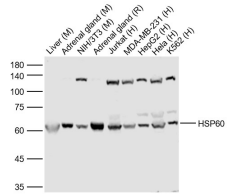
Reactivity: Human, Mouse, Rat (predicted: Rabbit, Cow, Dog, Horse)

Predicted MW.: 58 kDa

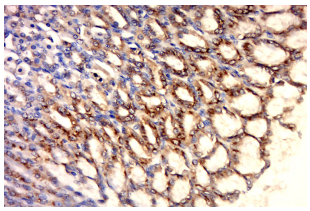
Observed MW.: 62 kDa

Subcellular Location: Cytoplasm

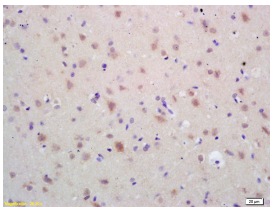
VALIDATION IMAGES



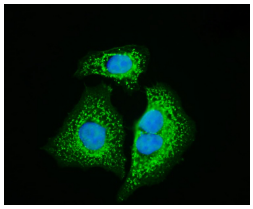
Sample: Lane 1: Liver (Mouse) Lysate at 40 ug Lane 2: Adrenal gland (Mouse) Lysate at 40 ug Lane 3: NIH/3T3 (Mouse) Cell Lysate at 30 ug Lane 4: Adrenal gland (Rat) Lysate at 40 ug Lane 5: Jurkat (Human) Cell Lysate at 30 ug Lane 6: MDA-MB-231 (Human) Cell Lysate at 30 ug Lane 7: HepG2 (Human) Cell Lysate at 30 ug Lane 8: Hela (Human) Cell Lysate at 30 ug Lane 9: K562 (Human) Cell Lysate at 30 ug Primary: Anti-HSP60 (bs-0191R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 62 kD Observed band size: 62 kD



Paraformaldehyde-fixed, paraffin embedded (rat stomach); 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 (HSP60) Polyclonal Antibody, Unconjugated (bs-0191R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37∩ for 20 min; Incubation: Anti-HSP60 Polyclonal Antibody, Unconjugated(bs-0191R) 1:200, overnight at 4Σ C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



HepG2 cell; 4% Paraformaldehyde-fixed; Triton

X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (HSP60) polyclonal Antibody, Unconjugated (bs-0191R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

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=8.355]** Shi S et al. Homologous-targeting biomimetic nanoparticles for photothermal therapy and Nrf2-siRNA amplified photodynamic therapy against oral tongue squamous cell carcinoma. Chemical Engineering Journal, 2020, 124268. WB ;Human. doi:10.1016/j.cej.2020.124268
- **[IF=7.666]** Shulipan Mulati. et al. 6-Shogaol Exhibits a Promoting Effect with Tax via Binding HSP60 in Non-Small-Cell Lung Cancer. CELLS-BASEL. 2022 Jan;11(22):3678 WB ;Human. 36429106
- **[IF=7.36]** Qi et al. Two-dimensional differential gel electrophoresis/analysis of diethylnitrosamine induced rat hepatocellular carcinoma. (2008) Int.J.Cancer. 122:2682-8 WB ;Rat. 18351647
- **[IF=6.388]** Weiyi Zhang. et al. Cinnamaldehyde induces apoptosis and enhances anti-colorectal cancer activity via covalent binding to HSPD1. PHYTOTHER RES. 2023 Apr;: WB ;Human. 37086182