bs-11764R **[Primary Antibody]**

OPA1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4976 **SWISS:** O60313

Target: OPA1

Immunogen: KLH conjugated synthetic peptide derived from human OPA1: 651-750/960.

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: OPA1 is a 120kDa protein belonging to the dynamin family. The OPA1 gene has been localized to 3q29. The gene is targeted to mitochondria and is involved in mitochondrial biogenesis. Defects in OPA1 are a cause of optic atrophy type 1. OPA1 is mostly expressed in retina but can also be expressed in brain, testis, heart and skeletal muscle.

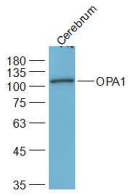
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

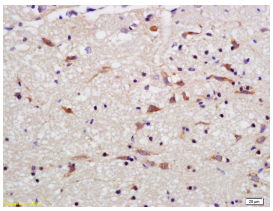
Predicted MW.: 111 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Sample: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-OPA1 (bs-11764R) at 1/2000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 111 kD Observed band size: 111 kD



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°C for 20 min; Incubation: Anti-OPA1 Polyclonal Antibody, Unconjugated(bs-11764R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=13.352]** Guangdong Bai. et al. Perinatal exposure to glyphosate-based herbicides impairs progeny health and placental angiogenesis by disturbing mitochondrial function. ENVIRON INT. 2022 Dec;170:107579 WB ;Pig. 36265358
- **[IF=9.8]** Dongliu Luo. et al. Selenium deficiency exacerbated Bisphenol A-induced intestinal toxicity in chickens: Apoptosis and cell cycle arrest mediated by ROS/P53. SCI TOTAL ENVIRON. 2023 Dec;:169730 WB ;Chicken. 38160834
- **[IF=6.513]** Zhe Li. et al. Bisphenol A aggravate selenium deficiency-induced apoptosis via miR-215-3p/Dio1 to activate ROS/PI3K/AKT pathway in chicken arterial. J CELL PHYSIOL. 2023 Apr;: WB ;Chicken. 37012668
- **[IF=7]** He Wei. et al. Dietary fat supplementation relieves cold temperature-induced energy stress through AMPK-mediated mitochondrial homeostasis in pigs. J ANIM SCI BIOTECHNO. 2024 Dec;15(1):1-19 WB ;Pig. 38584279

- **[IF=6.792]** Yang Q et al. Hexavalent chromium induces mitochondrial dynamics disorder in rat liver by inhibiting AMPK/PGC-1α signaling pathway. Environ Pollut.2020 Oct;265(Pt A):114855. WB ;Rat. 32474337