bs-1469R **[Primary Antibody]**

GRP75 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3313 **SWISS:** P38646

Target: GRP75

Immunogen: KLH conjugated synthetic peptide derived from human GRP75: 561-679/679.

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 heat shock protein 70 gene family. The encoded protein is primarily localized to the mitochondria but is also found in the endoplasmic reticulum, plasma membrane and cytoplasmic vesicles. This protein is a heat-shock cognate protein. This protein plays a role in cell proliferation, stress response and maintenance of the mitochondria. A pseudogene of this gene is found on chromosome 2.

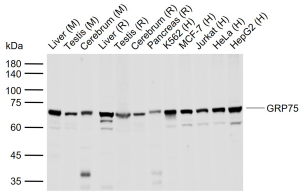
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

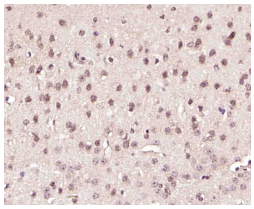
Predicted MW.: 70 kDa

Subcellular Location: Cytoplasm ,Nucleus

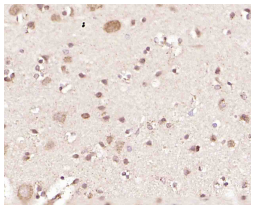
VALIDATION IMAGES



Sample: Lane 1: Mouse Liver tissue lysates Lane 2: Mouse Testis tissue lysates Lane 3: Mouse Cerebrum tissue lysates Lane 4: Rat Liver tissue lysates Lane 5: Rat Testis tissue lysates Lane 6: Rat Cerebrum tissue lysates Lane 7: Rat Pancreas tissue lysates Lane 8: Human K562 cell lysates Lane 9: Human MCF-7 cell lysates Lane 10: Human Jurkat cell lysates Lane 11: Human HeLa cell lysates Lane 12: Human HepG2 cell lysates Primary: Anti-GRP75 (bs-1469R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 70 kDa Observed band size: 72 kDa



Paraformaldehyde-fixed, paraffin embedded (mouse brain); 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; Incubation with (GRP75) Polyclonal Antibody, Unconjugated (bs-1469R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human brain); 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; Incubation with (GRP75) Polyclonal Antibody, Unconjugated (bs-1469R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=5.396]** Yi Zhao. et al. Role of mitochondria-endoplasmic reticulum coupling in lycopene preventing DEHP-induced hepatotoxicity. Food Funct. 2021 Sep;: WB ;mouse. 34608470
- **[IF=5.19]** Peng Junjun. et al. Mitochondria-associated endoplasmic reticulum membranes participate mitochondrial dysfunction and endoplasmic reticulum stress caused by copper in duck kidney. ENVIRON SCI POLLUT R. 2023 May;:1-12 WB ;Duck. 37253910
- **[IF=4.6]** Yoon Junyong. et al. Intratumoral adoptive transfer of inflammatory macrophages engineered by co-activating

TLR and STING signaling pathways exhibits robust antitumor activity. CLIN EXP MED. 2023 Aug;:1-13 WB ;Mouse. 37535193

- **[IF=4.8]** Junke Wang. et al. Di-(2-ethylhexyl) phthalate induces prepubertal testicular injury through MAM-related mitochondrial calcium overload in Leydig and Sertoli cell apoptosis. TOXICOLOGY. 2024 Sep;:153956 IF ;Mouse. 39307383
- **[IF=4.155]** Junjun Peng. et al. Endoplasmic reticulum-mitochondria coupling attenuates vanadium-induced apoptosis via IP3R in duck renal tubular epithelial cells. J INORG BIOCHEM. J Inorg Biochem. 2022 Apr;:111809 WB ;Duck. 35421768