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## GRP94 Rabbit pAb

Catalog Number: bs-0194R

Target Protein: GRP94

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1ug/Test)

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

Predicted MW: 86 kDa

Entrez Gene: 7184

Swiss Prot: P14625

Source: KLH conjugated synthetic peptide derived from human GRP94: 554-650/803.

Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

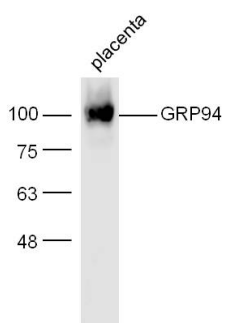
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: bs-0194P is one synthetic peptide derived from human GRP94.

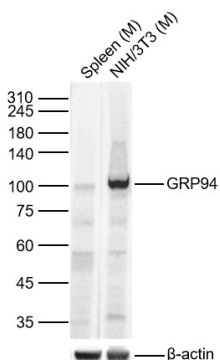
Glucose regulated protein 94 (GRP 94) is a resident protein of the endoplasmic reticulum (ER) and is induced by the accumulation of unfolded proteins suggesting that it might associate transiently with a variety of newly synthesized secretory and membrane proteins or permanently with mutant or defective proteins. The highly conserved sequence Lys-Asp-Glu-Leu (KDEL) is present at the C terminus of GRP 94 and other resident ER proteins including GRP 78 and protein disulfide isomerase (PDI). The presence of carboxy terminal KDEL appears to be necessary for retention and appears to be sufficient to reduce the secretion of proteins from the ER. This retention is reported to be mediated by a KDEL receptor. GRP 94 is also a low affinity, high capacity calcium binding protein, though it's role, if any, in calcium regulation is not understood.

### VALIDATION IMAGES

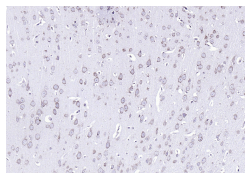
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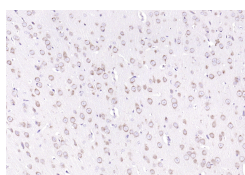
Sample: Placenta (Mouse) Lysate at 30 ug Primary: Anti- GRP94 (bs-0194R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/10000 dilution Predicted band size: 78 kD Observed band size: 100 kD



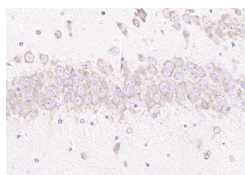
Sample: Lane 1: Mouse Spleen Lysates Lane 2: Mouse NIH/3T3 cell Lysates Primary: Anti-GRP94 (bs-0194R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 86kDa Observed band size: 100kDa



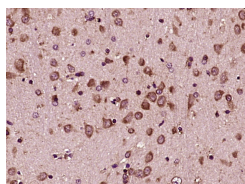
Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GRP94) Polyclonal Antibody, Unconjugated (bs-0194R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat 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; Antibody incubation with (GRP94) Polyclonal Antibody, Unconjugated (bs-0194R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



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; Antibody incubation with (GRP94) Polyclonal Antibody, Unconjugated (bs-0194R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); 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 (GRP94) Polyclonal Antibody, Unconjugated (bs-0194R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=15.07] Patel et al. Paralog-selective Hsp90 inhibitors define tumor-specific regulation of HER2. (2013) Nat.Chem.Bio. 9:677-84 Other ; Human . 23995768

- [IF=4.522] Li S et al. GRP94 promotes muscle differentiation by inhibiting the PI3K/AKT/mTOR signaling pathway. J Cell Physiol. 2019 Apr 25. WB,ICC ; Mouse . 31025379
- [IF=5.168] Feiyang Ma. et al. New insights into the interaction between duodenal toxicity and microbiota disorder under copper exposure in chicken: Involving in endoplasmic reticulum stress and mitochondrial toxicity. CHEM-BIOL INTERACT. 2022 Oct;366:110132 WB ; Chicken . 36030842
- [IF=4.155] Quanwei Li. et al. Toxicological mechanism of large amount of copper supplementation: Effects on endoplasmic reticulum stress and mitochondria-mediated apoptosis by Nrf2/HO-1 pathway-induced oxidative stress in the porcine myocardium. J Inorg Biochem. 2022 May;230:111750 WB ; Pig . 35151098
- [IF=2.2] Ma Feiyang. et al. Exposure to copper induces endoplasmic reticulum (ER) stress-mediated apoptosis in chicken (Gallus gallus) myocardium. VET RES COMMUN. 2023 Jul;:1-14 WB ; Chicken . 37405676