bs-0837R **[Primary Antibody]**

Glutathione Reductase 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: 2936 **SWISS:** P00390

Target: Glutathione Reductase

Immunogen: KLH conjugated synthetic peptide derived from human Glutathione Reductase: 421-522/522.

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: bs-0837P is one synthetic peptide derived from human Glutathione Reductase.
Glutathione reductase (GR) is a member of pyridine nucleotide-disulfideoxidoreductases, which includes the closely related enzymes thioredoxin reductase, lipoamide dehydrogenase, trypanothione reductase and mercuric ion reductase. GR is a cytoplasmic flavoenzyme widely distributed in aerobic organisms. The dimeric protein is composed of two identical subunits, each containing 1 FAD and 1 redox-active disulfide/dithiol as components of the catalytic apparatus. It plays a role in maintaining glutathione (GSH) in its reduced form by catalyzing the reduction of glutathione disulfide (GSSG): GSSG + NADPH + H+?2GSH + NADP+. In mosteukaryotic cells, GR maintains the ratio of [GSH]/[GSSG], and participates in several vital functions such as the detoxification of reactive oxygen species as well as protein and DNA biosynthesis.

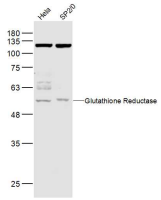
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

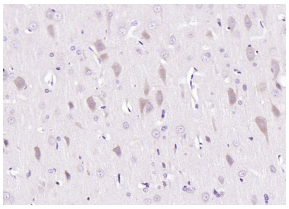
Predicted MW.: 57 kDa

Subcellular Location: Secreted

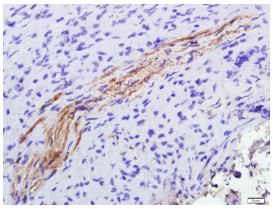
VALIDATION IMAGES



Sample: A549(Human) Cell Lysate at 30 ug SP2/0(Mouse) Cell Lysate at 30 ug Primary: Anti-Glutathione Reductase (bs-0837R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kD Observed band size: 57 kD



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 (Glutathione Reductase) Polyclonal Antibody, Unconjugated (bs-0837R) 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 Pulp); 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 (Glutathione Reductase) Polyclonal Antibody, Unconjugated (bs-0837R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

SELECTED CITATIONS

- **[IF=3.69]** Sukfan P. Kwong. et al. PORIMIN: The key to (+)-Usnic acid-induced liver toxicity and oncotic cell death in normal human L02 liver cells. J Ethnopharmacol. 2021 Apr;270:113873 WB ;Human. 33485970

- **[IF=2.134]** Khan et al. Alantolactone induces apoptosis in HepG2 cells through GSH depletion, inhibition of STAT3 activation, and mitochondrial dysfunction. (2013) Biomed.Res.In. 2013:719858 WB ;Human. 23533997