

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

Glutathione Reductase Rabbit pAb

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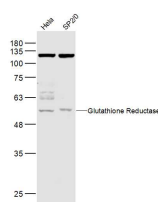
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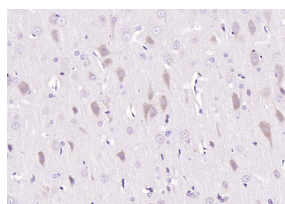
— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		IHC-P (1:100-500)
GeneID: 2936	SWISS: P00390	IHC-F (1:100-500)
Target: Glutathione Reductase		IF (1:100-500)
Immunogen: KLH conjugated synthetic peptide derived from human Glutathione Reductase: 421-522/522.		Reactivity: Human, Mouse, Rat (predicted: Pig, Cow, Dog)
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		Predicted MW.: 57 kDa
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.		Subcellular Location: Secreted
Background: bs-0837P is one synthetic peptide derived from human Glutathione Reductase. Glutathione reductase (GR) is a member of pyridine nucleotide-disulfide oxidoreductases, 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): $GSSG + NADPH + H^+ \rightarrow 2GSH + NADP^+$. In most eukaryotic 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.		

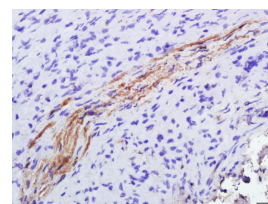
— VALIDATION IMAGES —



Sample: A549(Human) Cell Lysate at 30 ug
SP2/O(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) instructions and 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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[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