

Anti-Glutathione Reductase Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Pig,Cow)
Molecular Weight:	Theoretical: 57 kDa. Actual: 57 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	<p>1. Sample: A549 (Human) Cell Lysate at 30 µg SP2/0 (Mouse) Cell Lysate at 30 µg Primary: Anti-Glutathione Reductase (TMAB-06564) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kD Observed band size: 57 kD</p> <p>2. Paraformaldehyde-fixed, paraffin embedded (Human Pulp); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Glutathione Reductase) Polyclonal Antibody, Unconjugated (TMAB-06564) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.</p> <p>3. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Glutathione Reductase) Polyclonal Antibody, Unconjugated (TMAB-06564) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.</p>
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Glutathione Reductase
Antigen Species: Human
Gene ID: 2936
Uniprot ID: P00390

Research 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): $GSSG + NADPH + H^+ \rightarrow 2GSH + NADP^+$. 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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