

AP21307PU-N**Polyclonal Antibody to Glutathione reductase - Aff - Purified****Alternate names:**

GLUR, GR, GRD1, GRase, GSR

Quantity:

1 mg

Concentration:

2.0 mg/ml

Background:

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.

Uniprot ID:[P41921](#)**NCBI:**[NP_015234](#)**GeneID:**[856014](#)**Host / Isotype:**

Rabbit / IgG

Immunogen:

Glutathione Reductase isolated and purified from Baker's Yeast.
Freund's complete adjuvant is used in the first step of the immunization procedure.

Format:**State:** Lyophilized purified IgG fraction**Purification:** Solid Phase Affinity Chromatography**Buffer System:** PBS, pH 7.2 stabilized with Dextran without preservatives and foreign proteins**Reconstitution:** Restore by adding 0.5 ml of sterile distilled water**Applications:**

This product is intended for use in precipitating and non-precipitating antibody-binding assays (such as e.g., ELISA and Western blotting and Immunofluorescence or Histochemical techniques), to prepare an insoluble immuno-affinity adsorbent, for labelling with a marker of the customer's own choice.

Working dilutions in non-precipitating antibody-binding techniques: 1/100-1/600.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

The antibody recognizes Glutathione Reductase from Baker's yeast. The reagents were evaluated for potency, purity and specificity using most or all of the following techniques: Immuno-electrophoresis, Cross-Immuno-electrophoresis, single Radial Immunodiffusion (Ouchterlony), block titration, ELISA, Immunoblotting and Enzyme Inhibition.

Cross-reactivities against enzymes of other sources may occur but have not been determined.

Species: Baker's Yeast.

Other species not tested.

Storage:

Store the antibody lyophilized at 2-8°C and reconstituted at 2-8°C for one week or (in aliquots) at -20°C for longer.

If a slight precipitation occurs upon storage, this should be removed by centrifugation.

Shelf life: one year from despatch.