

AP21261PU-N**Polyclonal Antibody to G6PD - Aff - Purified**

Alternate names:	Glucose-6-P-Dehydrogenase, Glucose-6-phosphate 1-dehydrogenase
Quantity:	1 mg
Concentration:	2.0 mg/ml
Background:	Glucose 6 Phosphate Dehydrogenase (G6PD) produces pentose sugars for nucleic acid synthesis and is the main producer of NADPH reducing power. Catalytic activity: D glucose 6 phosphate + NADP(+) \rightarrow D glucono 1,5 lactone 6 phosphate + NADPH. Defects in G6PD are the cause of chronic non spherocytic haemolytic anemia (CNSHA). G6PD deficiency is the most common human enzyme deficiency; one benefit of having G6PD deficiency is that it confers a resistance to malaria.
Uniprot ID:	P11412
NCBI:	NP_014158
GeneID:	855480
Host / Isotype:	Rabbit / IgG
Immunogen:	Glucose-6-Phosphate Dehydrogenase 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 hyperimmune 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 choice. Recommended Working Dilutions: Non-precipitating antibody-binding techniques: 1/10,000-1/70,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This Affinity purified antibody recognizes Glucose-6-Phosphate Dehydrogenase from Baker's Yeast. The reagents were evaluated for potency, purity and specificity using most or all of the following techniques: Immunoelectrophoresis, Cross-Immunoelectrophoresis, 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 lyophilized at 2-8°C for 6 months or at -20°C long term.
After reconstitution store the antibody undiluted at 2-8°C for one month
or (in aliquots) at -20°C long term.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.