

Product datasheet for **AP22547PU-N**

Glucose 6 Phosphate Dehydrogenase (G6PD) (305-318) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA: 1/8000. Immunohistochemistry on Paraffin Sections: 2.5 µg/ml. Western Blot: 1/8000, 0.1 - 0.3 µg/ml.
Reactivity:	Canine, Human, Mouse, Rat, Monkey
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Synthetic peptide from an internal region (aa 305-318) of human G6PD
Specificity:	This antibody detects G6PD (aa 305-318). It is expected to recognise both reported isoforms (NP_000393.4 and NP_001035810.1).
Formulation:	Tris saline buffer, pH 7.3, 0.5% BSA, 0.02% sodium azide State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity chromatography
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glucose-6-phosphate dehydrogenase
Database Link:	<u>Entrez Gene 24377 Rat</u> <u>Entrez Gene 2539 Human</u> <u>P11413</u>



[View online »](#)

Background: G6PD is glucose-6-phosphate dehydrogenase. This protein is a cytosolic enzyme encoded by a housekeeping X-linked gene whose main function is to produce NADPH, a key electron donor in the defense against oxidizing agents and in reductive biosynthetic reactions. G6PD is remarkable for its genetic diversity. Many variants of G6PD, mostly produced from missense mutations, have been described with wide ranging levels of enzyme activity and associated clinical symptoms.

Synonyms: Glucose-6-phosphate 1-dehydrogenase, Glucose-6-P-Dehydrogenase

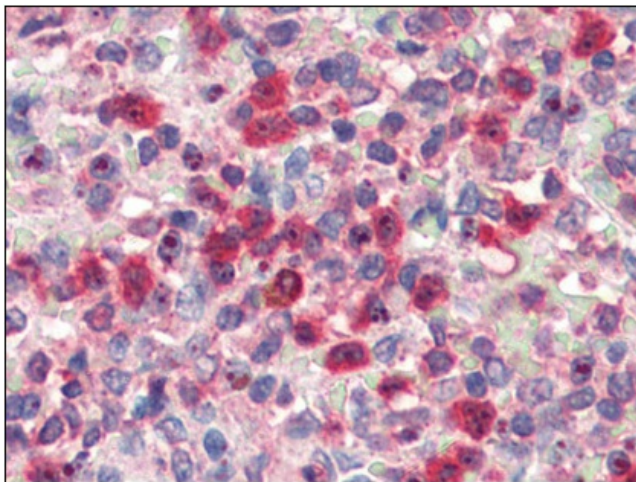
Protein Families: Druggable Genome

Protein Pathways: Glutathione metabolism, Metabolic pathways, Pentose phosphate pathway

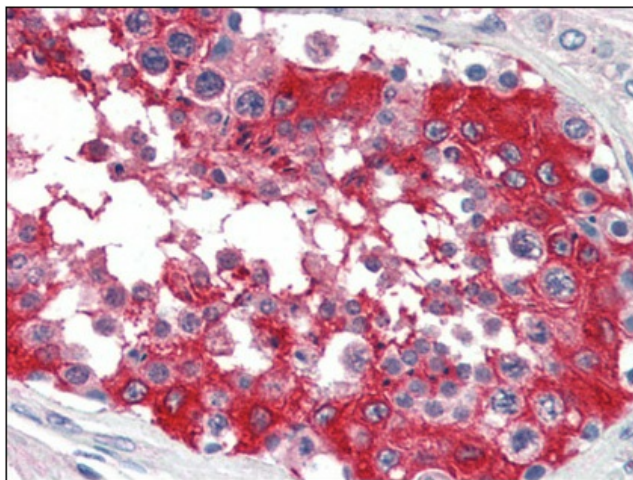
Product images:



Antibody (0.1 ug/ml) staining of Human Placenta lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Human Spleen (formalin-fixed, paraffin-embedded) stained with G6PD antibody at 2.5 ug/ml followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Human Testis (formalin-fixed, paraffin-embedded) stained with G6PD antibody at 2.5 ug/ml followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.