

Product datasheet for **AM09088PU-N**

Glucose 6 Phosphate Dehydrogenase (G6PD) (35-506) Mouse Monoclonal Antibody [Clone ID: AT2F6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT2F6
Applications:	ELISA, FC, ICC/IF, IF, IHC, WB
Recommended Dilution:	ELISA. Western blot (1:1,000 - 1:2,000). Immunohistochemistry on Paraffin sections (5 µg/ml). Immunocytochemistry / Immunofluorescence. Flow cytometry.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b, kappa
Clonality:	Monoclonal
Immunogen:	Recombinant human G6PD (35-506aa) purified from E. coli
Specificity:	The antibody recognizes human G6PD at aa 35-506. Other species not tested.
Formulation:	Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol
Concentration:	1mg/ml (determined by BCA assay)
Purification:	By protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.
Stability:	Shelf life: one year from despatch.
Gene Name:	glucose-6-phosphate dehydrogenase

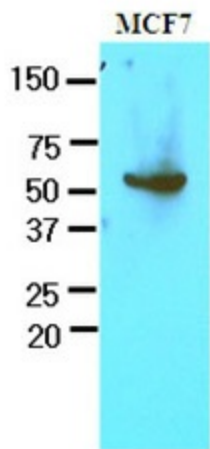


Database Link: [NP_001035810.1](#)
[Entrez Gene 2539 Human](#)
[P11413](#)

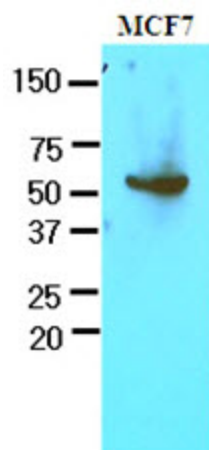
Background: Glucose-6-phosphate dehydrogenase (G6PD) is the rate-limiting enzyme of the pentose phosphate pathway, a metabolic pathway that supplies reducing energy to cells by maintaining the level of NADPH. G6PD converts glucose-6-phosphate into 6-phosphoglucono-delta-lactone and simultaneously produce NADPH. The NADPH in turn maintains the level of glutathione in these cells that helps protect the red blood cells against oxidative damage. G6PD deficiency cause acute hemolytic anemia.

Synonyms: glucose-6-phosphate 1-dehydrogenase, G6PD1, G6PDH

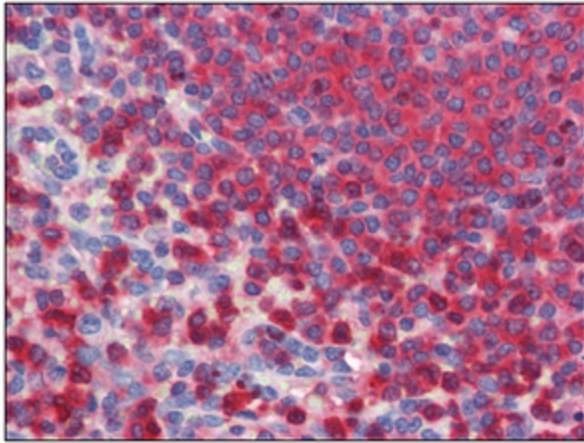
Product images:



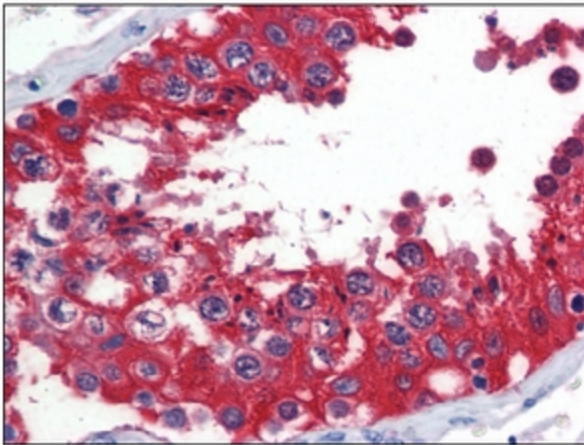
Cell lysates of MCF7 (30ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human G6PD (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Western blot analysis: Cell lysates of MCF7 (30 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human G6PD antibody (1/1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Immunohistochemistry: G6PD antibody staining of Formalin-Fixed, Paraffin-Embedded Human Spleen followed by biotinylated secondary antibody, alkaline phosphatase-streptavidin and chromogen.



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