

Product datasheet for **AM09088PU-S**

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, 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
Clonality:	Monoclonal
Immunogen:	Recombinant human G6PD (35-506 aa) purified from <i>E. coli</i>
Specificity:	The antibody recognizes human G6PD at aa 35-506. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks 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:	Entrez Gene 2539 Human P11413



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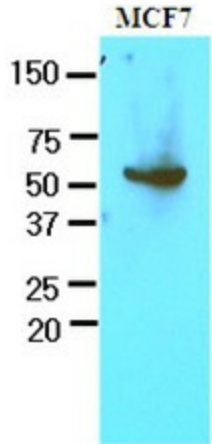
Background:

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- δ -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.

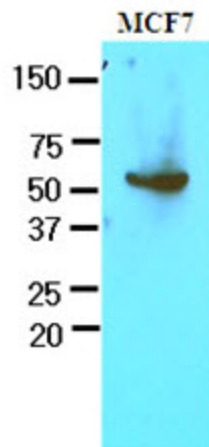
Synonyms:

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

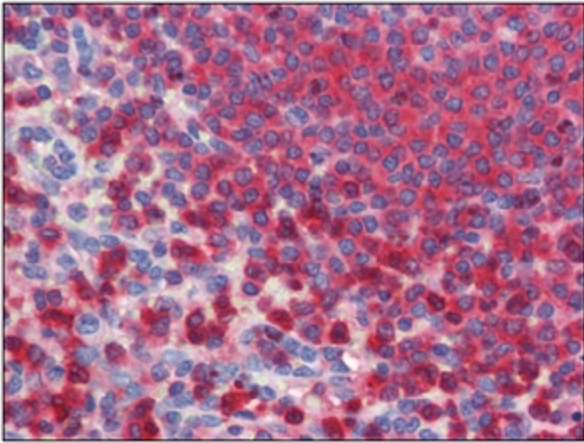
Product images:



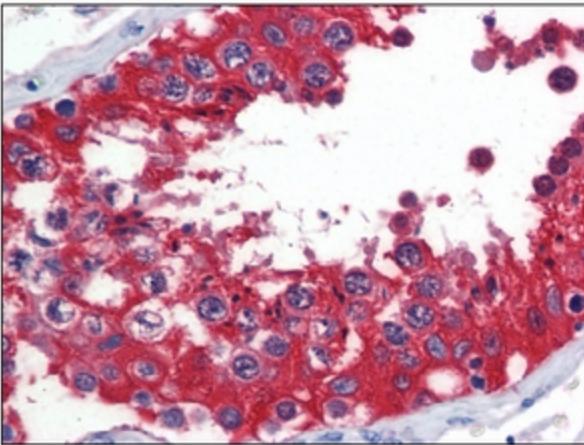
Cell lysates of MCF7 (30ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human G6PD (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



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



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