

32-5977: Mouse Anti Human Glucose-6-Phosphate Dehydrogenase(Clone: PAT2F6AT.)

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| Clonality : | Monoclonal |
| Clone Name : | PAT2F6AT. |
| Gene : | G6PD |
| Gene ID : | 2539 |
| Uniprot ID : | P11413 |
| Format : | Purified |
| Alternative Name : | G6PD, G6PD1, Glucose-6-phosphate 1-dehydrogenase. |
| Isotype : | Mouse IgG2b heavy chain and ? light chain. |
| Immunogen Information : | Anti-human G6PD mAb is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with recombinant human G6PD amino acids 35-506 purified from E. coli. |

Description

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-?-lactone and at the same time produces NADPH. The NADPH maintains the level of glutathione in these cells that helps protect the red blood cells against oxidative damage. G6PD deficiency causes acute hemolytic anemia, neonatal jaundice or acute hemolysis. G6PD is a cytosolic enzyme encoded by an X-linked gene whose main function is to produce NADPH, a crucial electron donor in the defense against oxidizing agents and in reductive biosynthetic reactions. G6PD produces pentose sugars for nucleic acid synthesis and is a main producer of NADPH reducing power.

Product Info

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| Amount : | 20 µg |
| Purification : | G6PD antibody was purified from mouse ascitic fluids by protein-G affinity chromatography. |
| Content : | 1mg/ml containing PBS, pH-7.4, & 0.1% Sodium Azide. |
| Storage condition : | For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles. |