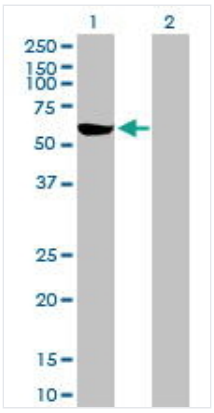
# G6PD Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | G6PD, Polyclonal Antibody |
| **Full Product Name** | G6PD (Glucose-6-phosphate 1-dehydrogenase) APC |
| **Product Gene Name** | anti-G6PD antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human G6PD. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo |
| **Molecular Weight** | 62,468 Da |
| **OMIM** | 305900 |
| **3D Structure** | ModBase 3D Structure for P11413 |
| **Immunogen** | Full length human G6PD, aa1-515 (NP_001035810.1). |
| **Immunogen Sequence** | MAEQVALSRTQVCGILREELFQGDAFHQSDTHIFIIMGASGDLAKKKIYPTIWWLFRDGLLPENTFIVGYARSRLTVADIRKQSEPFFKATPEEKLKLEDFFA |
| **Conjugate** | APC |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-G6PD antibody** | Antibodies; Enzymes; Dehydrogenase |
| **Applications Tested/Suitable for anti-G6PD antibody** | Western Blot (WB) |
| **Application Notes for anti-G6PD antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-G6PD antibody** | Produces pentose sugars for nucleic acid synthesis and main producer of NADPH reducing power. |
| **Other Notes** | Small volumes of anti-G6PD antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess |

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| **Searchable Terms for G6PD purchase** | MBS6379110 is an antibody targeting G6PD. Also known as G6PD (Glucose-6-phosphate 1-dehydrogenase) APC. Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-G6PD antibody**
Western Blot analysis of G6PD expression in transfected 293T cell line by G6PD polyclonal antibody. Lane 1: G6PD transfected lysate (59.3kD). Lane 2: Non-transfected lysate.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for G6PD. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 108773793 |
| **NCBI GeneID** | 2539 |
| **NCBI Accession #** | NP_001035810.1 |
| **UniProt Primary Accession #** | P11413 |
| **UniProt Secondary Accession #** | Q16000; Q16765; Q8IU70; Q8IU88; Q8IUA6; Q96PQ2; D3DWX9 |
| **UniProt Related Accession #** | P11413 |
| **GenBank Nucleotide #** | NM_001042351.1 |
| **NCBI Official Full Name** | glucose-6-phosphate 1-dehydrogenase isoform b |
| **NCBI Official Synonym Full Names** | glucose-6-phosphate dehydrogenase |
| **NCBI Official Symbol** | G6PD |
| **NCBI Official Synonym Symbols** | G6PD1 |
| **UniProt Protein Name** | Glucose-6-phosphate 1-dehydrogenase |
| **Protein Family** | Glucose-6-phosphate 1-dehydrogenase |
| **UniProt Gene Name** | G6PD |
| **UniProt Synonym Gene Names** | G6PD |
| **UniProt Entry Name** | G6PD_HUMAN |
| **NCBI Protein Information** | glucose-6-phosphate 1-dehydrogenase |
| **NCBI Summary for G6PD** | This gene encodes 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. G6PD deficiency may cause neonatal jaundice, acute hemolysis, or severe chronic non-spherocytic hemolytic anemia. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |

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| **UniProt Comments for G6PD** | G6PD: glucose-6-phosphate dehydrogenase. 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. G6PD deficiency may cause neonatal jaundice, acute hemolysis, or severe chronic non-spherocytic hemolytic anemia. Two splice variant isoforms have been described. The long isoform is found in lymphoblasts, granulocytes and sperm.<br><br>Protein type: Cell development/differentiation; Other Amino Acids Metabolism - glutathione; Carbohydrate Metabolism - pentose phosphate pathway; EC 1.1.1.49; Oxidoreductase<br><br>Chromosomal Location of Human Ortholog: Xq28<br><br>Cellular Component: centrosome; internal side of plasma membrane; membrane; intracellular membrane-bound organelle; cytoplasm; microtubule organizing center; nucleus; cytosol<br><br>Molecular Function: identical protein binding; glucose-6-phosphate dehydrogenase activity; protein binding; protein homodimerization activity; NADP binding; glucose binding<br><br>Biological Process: NADPH regeneration; response to food; pentose-phosphate shunt; erythrocyte maturation; ribose phosphate biosynthetic process; glucose 6-phosphate metabolic process; pentose-phosphate shunt, oxidative branch; glucose metabolic process; cytokine production; pathogenesis; NADP metabolic process; cholesterol biosynthetic process; response to organic cyclic substance; glutathione metabolic process; substantia nigra development; response to ethanol; regulation of neuron apoptosis; carbohydrate metabolic process; lipid metabolic process; pentose biosynthetic process<br><br>Disease: Favism, Susceptibility To; Anemia, Nonspherocytic Hemolytic, Due To G6pd Deficiency; Malaria, Susceptibility To |
| **Research Articles on G6PD** | **1.** Aggregated across all genotypes, we find that increasing levels of G6PD deficiency are associated with decreasing risk of cerebral malaria, but with increased risk of severe malarial anaemia. |
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