

KD-Validated Anti-Glucose-6-phosphate dehydrogenase Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1968

Product Information

Application	WB, FC, ICC
Primary Accession	P11413
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB1795
Calculated MW	59257
Gene Name	G6PD
Aliases	G6PD; Glucose-6-Phosphate Dehydrogenase; G6PD1; Glucose-6-Phosphate 1-Dehydrogenase; EC 1.1.1.49; Epididymis Secretory Sperm Binding Protein
Immunogen	A synthesized peptide derived from human G6PD

Additional Information

Gene ID	2539
Other Names	Glucose-6-phosphate 1-dehydrogenase, G6PD, 1.1.1.49, G6PD

Protein Information

Name	G6PD
Function	Catalyzes the rate-limiting step of the oxidative pentose- phosphate pathway, which represents a route for the dissimilation of carbohydrates besides glycolysis. The main function of this enzyme is to provide reducing power (NADPH) and pentose phosphates for fatty acid and nucleic acid synthesis. Also catalyzes the conversion of NAADPH, which is produced by enzymes such as DUOX1, DUOX2 and NOX5 from NAADP and promotes Ca(2+) signaling during T cell activation, back to NAADP (PubMed: 34784249).
Cellular Location	Cytoplasm, cytosol. Membrane; Peripheral membrane protein
Tissue Location	Isoform Long is found in lymphoblasts, granulocytes and sperm

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