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G6PD Antibody

Rabbit mAb
Catalog # AP91271

Product Information

Application	WB, IHC, IF, FC, ICC, IHF
Primary Accession	P11413
Reactivity	Human
Clonality	Monoclonal
Other Names	G6PD; G6PD1; G6pdx; Glucose 6 phosphate 1 dehydrogenase; Glucose 6 phosphate dehydrogenase; Glucose 6 phosphate dehydrogenase, G6PD; MET19; POS10; Zwf1p;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	59257

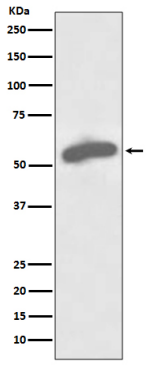
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:100
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human G6PD
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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

Images



Western blot analysis of G6PD expression in MCF7 cell lysate.