

Mouse anti-Human G6PD Monoclonal Antibody | anti-G6PD antibody

G6PD antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48068	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

G6PD; Monoclonal Antibody; G6PD antibody; Glucose-6-phosphate 1-dehydrogenase; zwf; Glucose-6-phosphate 1-dehydrogenase G6PD; G6PD1; G6pdx; Glucose 6 phosphate 1 dehydrogenase; MET19; POS10; Zwf1p.; anti-G6PD antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	AT2F6
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	515
Applicable Applications for anti-G6PD antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human G6PD (35-506aa) purified from E. coli
Clone Note	Anti-human G6PD mAb, clone AT2F6, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human G6PD protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of G6PD in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human G6PD antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF 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. Lane 1.: MCF cell lysate Lane 2.: HeLa cell lysate Lane 3.: Jurkat cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-G6PD antibody	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-delta-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.
Product Categories/Family for anti-G6PD antibody	Metabolism
References	Huang Y., et al. (2008) Mol Genet Metab. 93 (1):44-53; Zimny A., et al. (2003) Pol Arch Med Wewn. 110 (5):1327-33

NCBI AND UNIPROT INFORMATION

NCBI GI #	108773793
NCBI GeneID	2539
NCBI Accession #	NP_001035810.1
NCBI GenBank Nucleotide #	NM_001042351.2
UniProt Accession #	P11413; Q16000; Q16765; Q8IU70; Q8IU88; Q8IUA6; Q96PQ2; D3DWX9
Molecular Weight	62,468 Da
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
NCBI Protein Information	glucose-6-phosphate 1-dehydrogenase
UniProt Protein Name	Glucose-6-phosphate 1-dehydrogenase
UniProt Gene Name	G6PD
UniProt Synonym Gene Names	G6PD

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/g6pd-antibody-clone-at2f6-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/48068>