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# **Human G6PD antibody**

Catalog Number: ATGA0158

## **PRODUCT INFORMATION**

## Catalog number

ATGA0158

#### Clone No.

AT2F6

## **Product type**

Monoclonal Antibody

#### UnitProt No.

P11413

#### **NCBI Accession No.**

NP 001035810.1

#### **Alternative Names**

glucose-6-phosphate 1-dehydrogenase, G6PD1, G6PDH

## **PRODUCT SPECIFICATION**

#### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant human G6PD (35-506aa) purified from E. coli

## Isotype

IgG2b kappa

## **Purification Note**

By protein-G affinity chromatography

## **Application**

ELISA, WB, ICC/IF

#### Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

#### **Storage**



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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

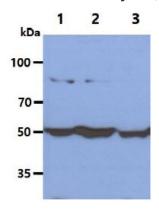
Glucose-6-phosphate dehydrogenase (G6PD) is the rate-limiting enzyme of the pentose phosphate pathway, a metabolic pathway that supplies reducing energy to cells by maintaining the level of NADPH. G6PD converts glucose-6-phosphate into 6-phosphoglucono-delta-lactone and simultaneously produce NADPH. 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.

#### **General 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.

## **DATA**

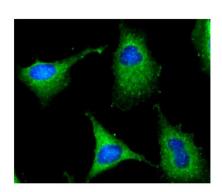
## Western blot analysis (WB)



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.: MCF7 cell lysate Lane 2.: HeLa cell lysate Lane 3.: Jurkat cell lysate

## Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of G6PD in HeLa cells. The cell was stained with ATGA0158 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

