

# G6PD Rabbit pAb

Catalog No.: A13983 **1 Publications**

## Basic Information

### Observed MW

60kDa

### Calculated MW

59kDa

### Category

Primary antibody

### Applications

ELISA, WB, IF/ICC

### Cross-Reactivity

Human, Mouse, Rat

## Background

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.

## Recommended Dilutions

<b>WB</b>	1:500 - 1:1000
<b>IF/ICC</b>	1:50 - 1:200

## Immunogen Information

### Gene ID

2539

### Swiss Prot

P11413

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 415-515 of human G6PD (NP\_001035810.1).

### Synonyms

G6PD1; G6PD

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

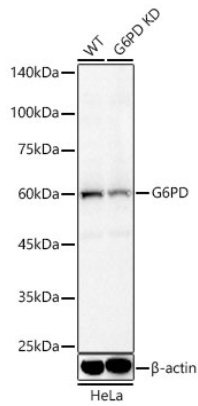
Affinity purification

### Storage

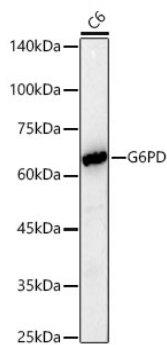
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

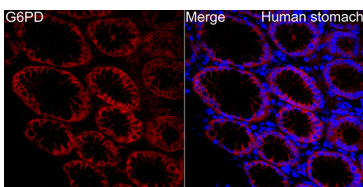
## Validation Data



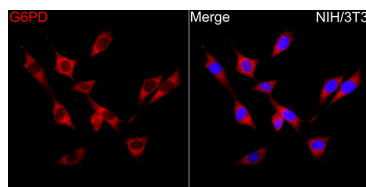
Western blot analysis of lysates from wild type (WT) and G6PD knockdown (KD) HeLa cells using G6PD Rabbit pAb (A13983) at 1:800 dilution.  
Secondary antibody:HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection:ECL Basic Kit (RM00020).  
Exposure time: 10s.



Western blot analysis of lysates from C6 cells using G6PD Rabbit pAb(A13983) at 1:800 dilution.  
Secondary antibody:HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection:ECL Basic Kit (RM00020).  
Exposure time:30s.



Immunofluorescence analysis of paraffin-embedded Human stomach using G6PD Rabbit pAb(A13983) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



Immunofluorescence analysis of NIH/3T3 cells using G6PD Rabbit pAb(A13983) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.