

**Anti-G6PD/Glucose 6 Phosphate Dehydrogenase Rabbit Monoclonal Antibody**  
Catalog # ABO13552

**Specification**

**Anti-G6PD/Glucose 6 Phosphate Dehydrogenase Rabbit Monoclonal Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC, IF, ICC, FC   |
| Primary Accession | <a href="#">P11413</a> |
| Host              | Rabbit                 |
| Isotype           | Rabbit IgG             |
| Reactivity        | Human                  |
| Clonality         | Monoclonal             |
| Format            | Liquid                 |

**Description**

Anti-G6PD/Glucose 6 Phosphate Dehydrogenase Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human.

**Anti-G6PD/Glucose 6 Phosphate Dehydrogenase Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 2539

**Other Names**

Glucose-6-phosphate 1-dehydrogenase, G6PD, 1.1.1.49, G6PD

**Calculated MW**

59257 MW KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>FC 1:100

**Tissue Specificity**

Isoform Long is found in lymphoblasts, granulocytes and sperm.

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human G6PD

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

## Anti-G6PD/Glucose 6 Phosphate Dehydrogenase Rabbit Monoclonal Antibody - Protein Information

**Name** G6PD

### Function

Catalyzes the rate-limiting step of the oxidative pentose- phosphate pathway, which represents a route for the dissimulation 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.

### Cellular Location

Cytoplasm, cytosol. Membrane; Peripheral membrane protein

### Tissue Location

Isoform Long is found in lymphoblasts, granulocytes and sperm

## Anti-G6PD/Glucose 6 Phosphate Dehydrogenase Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-G6PD/Glucose 6 Phosphate Dehydrogenase Rabbit Monoclonal Antibody - Images

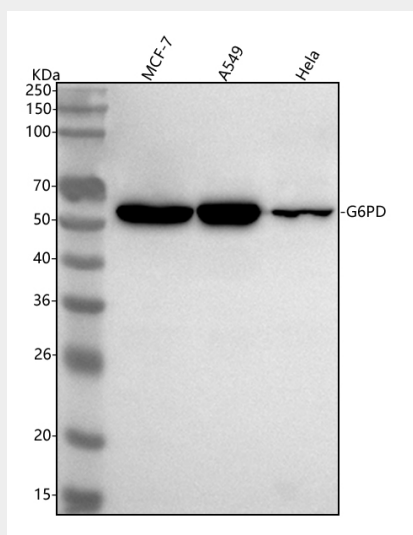


Figure 1. Western blot analysis of G6PD using anti-G6PD antibody (M00287). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human MCF-7 whole cell lysates,  
Lane 2: human A549 whole cell lysates,  
Lane 3: human Hela whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-G6PD antigen affinity purified monoclonal antibody (Catalog # M00287) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:1000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for G6PD at approximately 59 kDa. The expected band size for G6PD is at 59 kDa.