10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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	P11413
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
IHC 1:50-1:200
ICC/IF 1:50-1:200
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.**

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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 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.

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 Cytomety
- Cell Culture

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

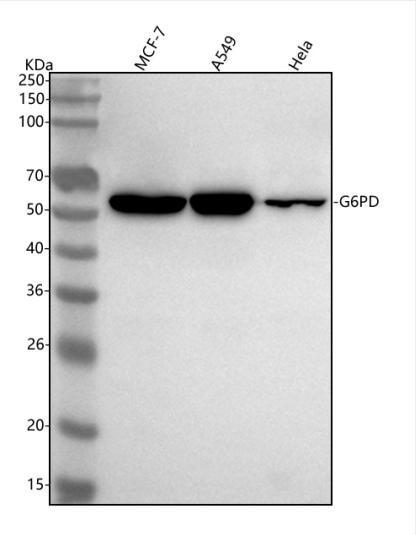

Figure 1. Western blot analysis of G6PD using anti-G6PD antibody (M00287).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

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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.