

Datasheet for ABIN3042413

anti-Glucose-6-Phosphate Dehydrogenase antibody (AA 315-515)



[Go to Product page](#)

2 Images

1 Publication

Overview

Quantity:	100 µg
Target:	Glucose-6-Phosphate Dehydrogenase (G6PD)
Binding Specificity:	AA 315-515
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glucose-6-Phosphate Dehydrogenase antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Glucose-6-phosphate 1-dehydrogenase(G6PD) detection. Tested with WB in Human.
Immunogen:	E.coli-derived human G6PD recombinant protein (Position: E315-L515). Human G6PD shares 95% and 96% amino acid (aa) sequences identity with mouse and rat G6PD, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Glucose-6-phosphate 1-dehydrogenase(G6PD) detection. Tested with WB in Human. Gene Name: glucose-6-phosphate dehydrogenase Protein Name: Glucose-6-phosphate 1-dehydrogenase
Purification:	Immunogen affinity purified.

Target Details

Target:	Glucose-6-Phosphate Dehydrogenase (G6PD)
Alternative Name:	G6PD (G6PD Products)
Background:	<p>Glucose-6-phosphate dehydrogenase, also known as G6PD or G6PDH, is an enzyme that in humans is encoded by the G6PD gene. It is mapped to Xq28. G6PD plays a key role in the production of ribose 5-phosphate and the generation of NADPH in the hexose monophosphate pathway. Because this pathway is the only NADPH-generation process in mature red cells, which lack the citric acid cycle, a genetic deficiency of G6PD is often associated with adverse physiologic effects. It has been found that aldosterone decreased G6PD expression and activity, resulting in increased oxidant stress and decreased nitric oxide levels, similar to what is observed in G6PD-deficient endothelial cells.</p> <p>Synonyms: G6PD antibody G6PD_HUMAN antibody G6PD1 antibody G6pdx antibody Glucose 6 phosphate 1 dehydrogenase antibody Glucose 6 phosphate dehydrogenase antibody Glucose 6 phosphate dehydrogenase, G6PD antibody Glucose-6-phosphate 1-dehydrogenase antibody MET19 antibody POS10 antibody Zwf1p antibody</p>
Gene ID:	2539
UniProt:	P11413
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for G6PD is approximately 0.25 ng/lane under reducing conditions.</p> <p>Notes: Tested Species: Species with positive results.</p> <p>Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

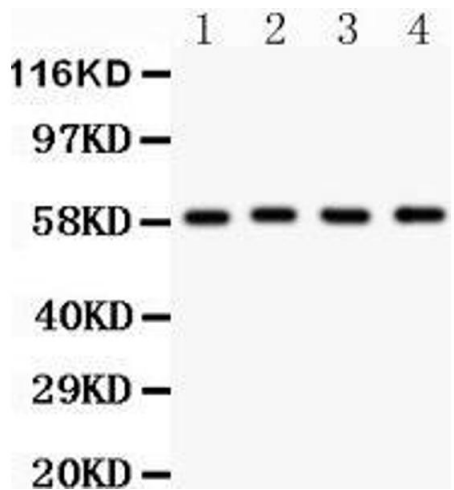
Handling

Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:	Hu, Zhang, Tang, Su, Li, Chen, Zhang, Cai, Zhu: "Variant G6PD levels promote tumor cell proliferation or apoptosis via the STAT3/5 pathway in the human melanoma xenograft mouse model." in: BMC cancer , Vol. 13, Issue 1, pp. 251, (2014) (PubMed).
-------------------	--

Images



Western Blotting

Image 1. Anti- G6PD antibody, Western blotting All lanes: Anti G6PD at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: MCF-7 Whole Cell Lysate at 40ug Lane 3: SKOV Whole Cell Lysate at 40ug Lane 4: HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 59KD Observed bind size: 59KD



Western Blotting

Image 2. Anti- G6PD antibody, Western blotting All lanes:
Anti G6PD at 0.5ug/ml WB: Recombinant Human G6PD
Protein 0.5ng Predicted bind size: 39KD Observed bind size:
39KD