

Datasheet for ABIN3022095

anti-Glucose-6-Phosphate Dehydrogenase antibody (AA 246-545)



[Go to Product page](#)

3 Images

2 Publications

Overview

Quantity:	100 µL
Target:	Glucose-6-Phosphate Dehydrogenase (G6PD)
Binding Specificity:	AA 246-545
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glucose-6-Phosphate Dehydrogenase antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 246-545 of human G6PD (NP_000393.4).
Sequence:	FANRIFGPIW NRDNIACVIL TFKEPFGTEG RGGYFDEFGI IRDVMQNHLL QMLCLVAMEK PASTNSDDVR DEKVKVLKCI SEVQANNVVL GQYVGNPDGE GEATKGYLDD PTVPRGSTTA TFAAVLYVE NERWDGVVPI LRCGKALNER KAEVRLQFHD VAGDIFHQQC KRNELVIRVQ PNEAVYTKMM TTKPGMFFNP EESELDLYG NRYKNVKLPD AYERLILDVF CGSQMHFVRS DELREAWRIF TPLLHQIELE KPKPIPIYIG SRGPTEADEL MKRVGFQYEG TYKWVNPBKL
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Glucose-6-Phosphate Dehydrogenase (G6PD)
Alternative Name:	G6PD (G6PD Products)
Background:	<p>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.,G6PD,G6PD1,Cancer,Signal Transduction,Endocrine & Metabolism,Carbohydrate metabolism,Endocrine and metabolic diseases,Diabetes,Cardiovascular,Heart,Cardiac metabolism,Cardiovascular diseases,Heart disease,G6PD</p>
Molecular Weight:	59 kDa/62 kDa/63 kDa
Gene ID:	2539
UniProt:	P11413
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
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 freeze / thaw cycles
Storage:	-20 °C

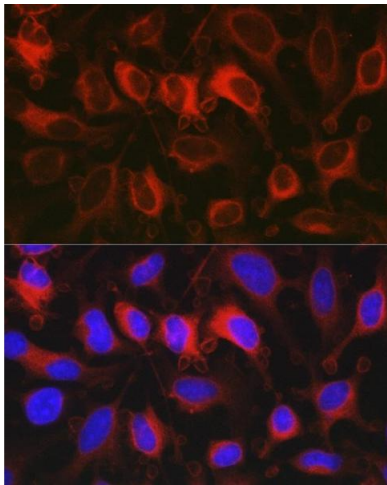
Handling

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

Publications

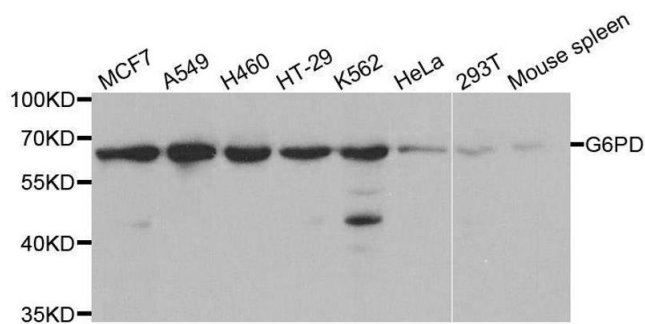
Product cited in: Liu, Yuan, Zhou, Zhao, Chen, Cheng, Lu, Liu: "Phloretin attenuates hyperuricemia-induced endothelial dysfunction through co-inhibiting inflammation and GLUT9-mediated uric acid uptake." in: **Journal of cellular and molecular medicine**, Vol. 21, Issue 10, pp. 2553-2562, (2018) ([PubMed](#)).

Images



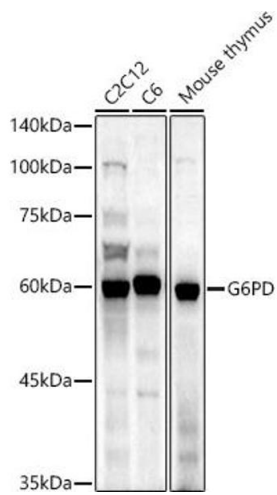
Immunofluorescence

Image 1. Immunofluorescence analysis of HeLa cells using G6PD Rabbit pAb (ABIN3022094, ABIN3022095, ABIN3022096 and ABIN6218601) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using G6PD antibody.



Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using G6PD antibody (ABIN3022094, ABIN3022095, ABIN3022096 and ABIN6218601) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.