Datasheet for ABIN969161

anti-Glucose-6-Phosphate Dehydrogenase antibody

6 Images | 2 Publications

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Overview

Quantity:	100 µL
Target:	Glucose-6-Phosphate Dehydrogenase (G6PD)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Immunogen:	Purified recombinant fragment of human G6PD expressed in E. coli.
Clone:	5-00E-12
Isotype:	IgG1
Purification:	purified

Target Details

Target:	Glucose-6-Phosphate Dehydrogenase (G6PD)
Alternative Name:	G6PD (G6PD Products)
Background:	Description: 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

Target Details

	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. Aliases: G6PD1
Molecular Weight:	59 kDa
Gene ID:	2539
HGNC:	2539
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

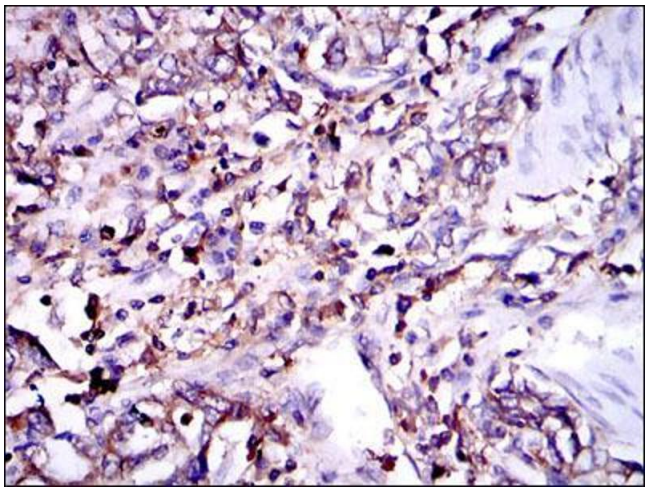
Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, FCM: 1:200 - 1:400
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % 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.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

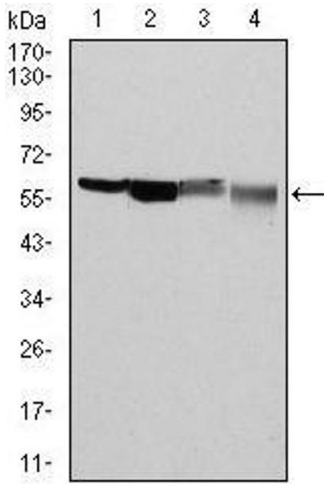
Publications

Product cited in:	Trilck, Peter, Zheng, Frank, Dobrenis, Mascher, Rolfs, Frech: "Diversity of glycosphingolipid GM2 and cholesterol accumulation in NPC1 patient-specific iPSC-derived neurons." in: **Brain research**, Vol. 1657, pp. 52-61, (2016) (PubMed).



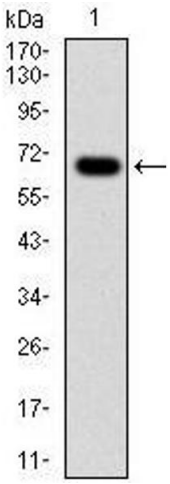
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded stomach cancer tissues using G6PD mouse mAb with DAB staining.



Western Blotting

Image 2. Western blot analysis using G6PD mouse mAb against Hela (1), MCF-7 (2), Jurkat (3) and K562 (4) cell lysate.



Western Blotting

Image 3. Western blot analysis using G6PD mAb against human G6PD (AA: 275-515) recombinant protein.(Expected MW is 53.1 kDa)

Please check the product details page for more images. Overall 6 images are available for ABIN969161.