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Product datasheet for TA336922

Glucose 6 Phosphate Dehydrogenase (G6PD) Mouse Monoclonal Antibody [Clone ID: 2H7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2H7
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	Flow Cytometry: 1:200-1:400, ELISA: 1:10000, Western Blot: 1:500-1:1000, Immunohistochemistry-Paraffin: 1:200-1:1000, Immunohistochemistry
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human Glucose 6 Phosphate Dehydrogenase expressed in E. coli. [UniProt# P11413]
Formulation:	PBS, 0.03% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Ammonium sulfate precipitation
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	59 kDa
Gene Name:	glucose-6-phosphate dehydrogenase
Database Link:	NP_000393 Entrez Gene 2539 Human P11413

View online »

Background: 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.

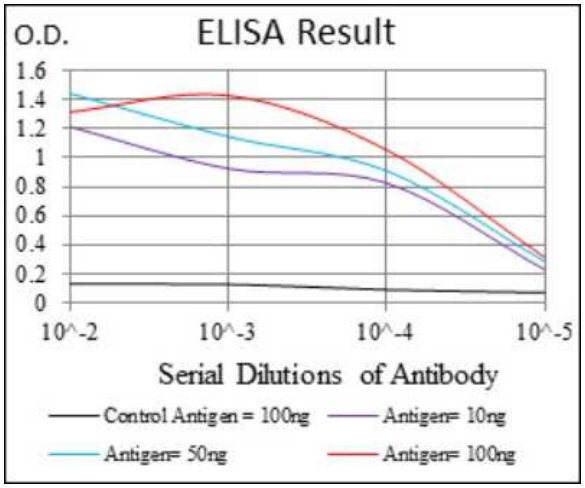
Synonyms: G6PD1

Note: This Glucose 6 Phosphate Dehydrogenase (2H7) antibody is useful for Western blot, Immunohistochemistry on paraffin-embedded sections, Flow Cytometry and ELISA.

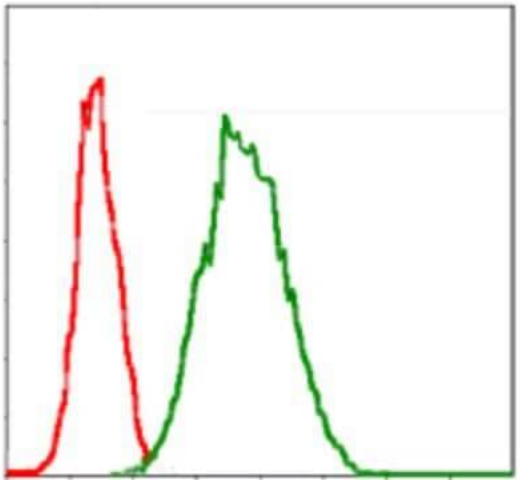
Protein Families: Druggable Genome

Protein Pathways: Glutathione metabolism, Metabolic pathways, Pentose phosphate pathway

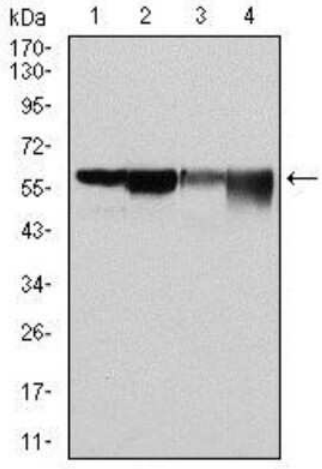
Product images:



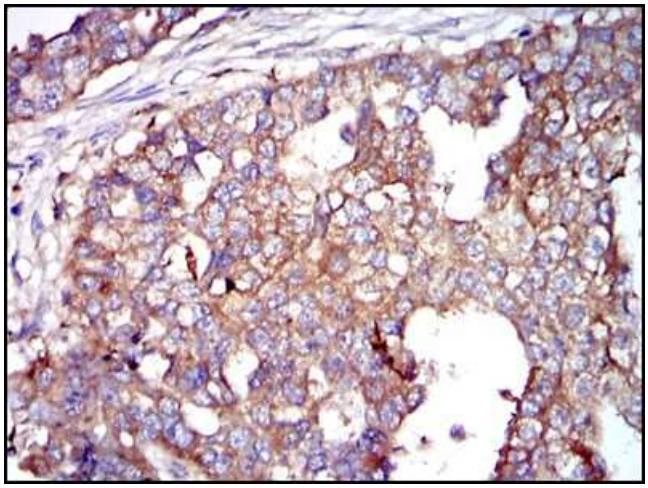
ELISA: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) TA336922 - Red: Control Antigen (100ng), Purple: Antigen (10ng), Green: Antigen (50ng), Blue: Antigen (100ng).



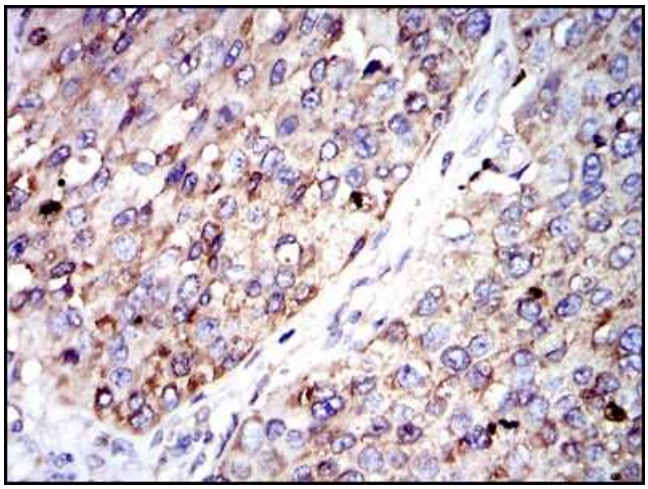
Flow Cytometry: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) TA336922 - Analysis of Jurkat cells using Glucose 6 Phosphate Dehydrogenase mouse mAb (green) and negative control (red).



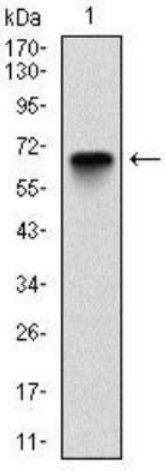
Western Blot: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) TA336922 - Analysis using Glucose 6 Phosphate Dehydrogenase mouse mAb against Hela (1), MCF-7 (2), Jurkat (3) and K562 (4) cell lysates.



Immunohistochemistry-Paraffin: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) TA336922 - Analysis of paraffin-embedded breast cancer tissues using Glucose 6 Phosphate Dehydrogenase mouse mAb with DAB staining.



Immunohistochemistry-Paraffin: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) TA336922 - Analysis of paraffin-embedded kidney cancer tissues using Glucose 6 Phosphate Dehydrogenase mouse mAb with DAB staining.



Western Blot: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) TA336922 - Analysis using Glucose 6 Phosphate Dehydrogenase mAb against human Glucose 6 Phosphate Dehydrogenase (AA: 275-515) recombinant protein. (Expected MW is 53.1 kDa)