

Anti-Glucose 6 Phosphate Dehydrogenase Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

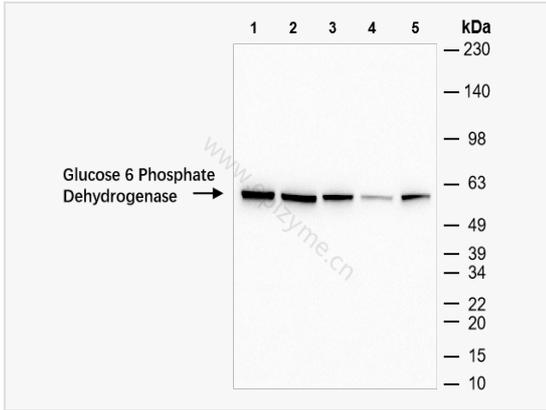
Catalog # R010864

Product Information

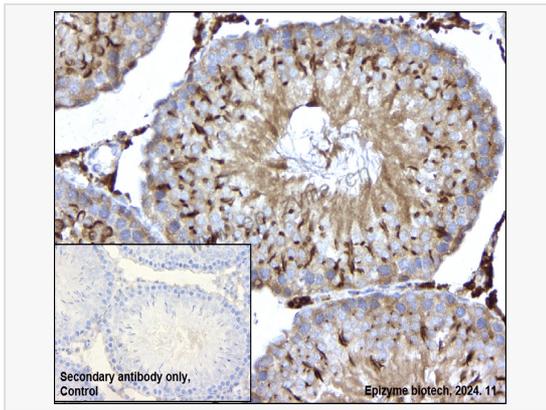
Application	IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA, WB
Reactivity	Rat, Human, Mouse
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	62M03L07
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Glucose 6 Phosphate Dehydrogenase
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Glucose 6 Phosphate Dehydrogenase Rabbit mAb [62M03L07] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

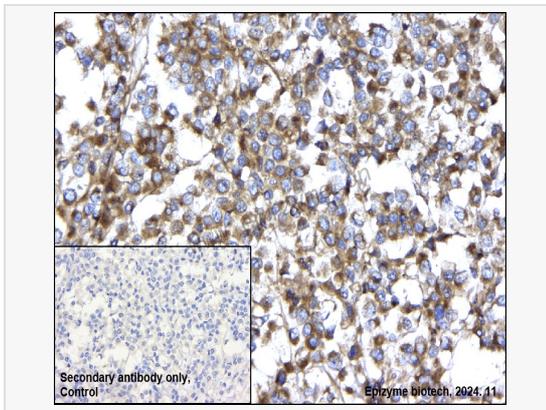
Synonyms	G6PD, G6PD_HUMAN, G6PD1, G6pdx, Glucose 6 phosphate 1 dehydrogenase, Glucose 6 phosphate dehydrogenase, Glucose 6 phosphate dehydrogenase, G6PD, Glucose-6-phosphate 1-dehydrogenase, MET19, POS10, Zwflp.
Calculated MW	Calculated MW: 59 kDa; Observed MW: 59 kDa
Uniprot ID	P11413
Gene ID	2539
Background	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. [provided by RefSeq, Jul 2008]
Tissue Location	Isoform Long is found in lymphoblasts, granulocytes and sperm.



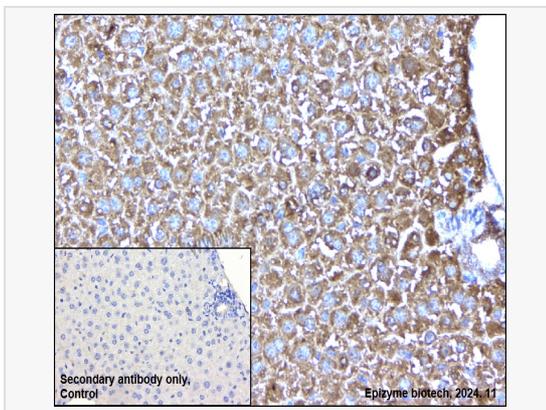
Western Blot - Anti-Glucose 6 Phosphate Dehydrogenase Rabbit mAb [62M03L07]
 All lanes: R010864 at 1:1,000 dilution
 Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
 Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
 Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
 Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
 Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
 Lysates/proteins at 10 µg per lane.
 Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
 Predicted band size: 59 kDa
 Observed band size: 59 kDa
 Developed using the ECL technique (Cat. No. SQ201).



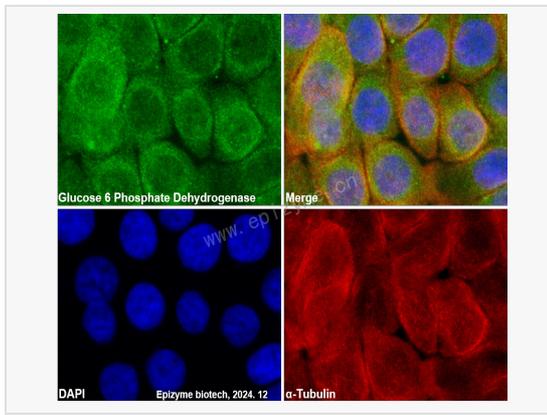
Immunohistochemistry - Anti-Glucose 6 Phosphate Dehydrogenase Rabbit mAb [62M03L07]
 Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
 Primary antibody: R010864 at 1:200 dilution
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
 DAB was used as the chromogen.
 Counter stained with hematoxylin.
 Positive/negative staining were presented.
 Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Glucose 6 Phosphate Dehydrogenase Rabbit mAb [62M03L07]
 Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
 Primary antibody: R010864 at 1:200 dilution
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
 DAB was used as the chromogen.
 Counter stained with hematoxylin.
 Positive/negative staining were presented.
 Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Glucose 6 Phosphate Dehydrogenase Rabbit mAb [62M03L07]
 Sample: Paraformaldehyde-fixed, paraffin embedded mouse liver tissue
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
 Primary antibody: R010864 at 1:200 dilution
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
 DAB was used as the chromogen.
 Counter stained with hematoxylin.
 Positive/negative staining were presented.
 Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Glucose 6 Phosphate Dehydrogenase Rabbit mAb [62M03L07]

Sample: TH-29 cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R010864 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).