Glucose 6 Phosphate Dehydrogenase Rabbit mAb

Catalog No: #49549

Package Size: #49549-1 50ul #49549-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

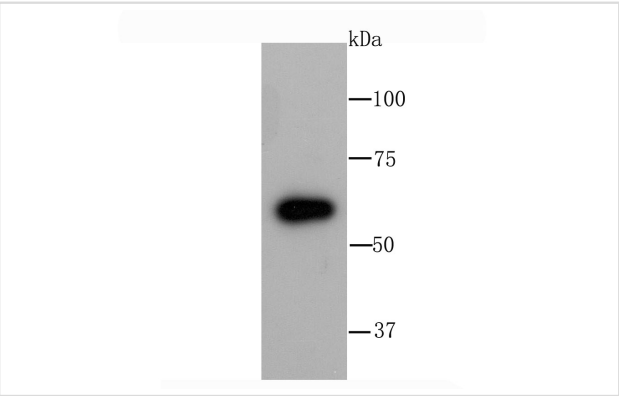
Description

Product Name	Glucose 6 Phosphate Dehydrogenase Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JA31-40
Purification	ProA affinity purified
Applications	WB, ICC, IHC, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	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
Accession No.	Swiss-Prot#:P11413
Uniprot	P11413
GeneID	2539;
Calculated MW	59 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

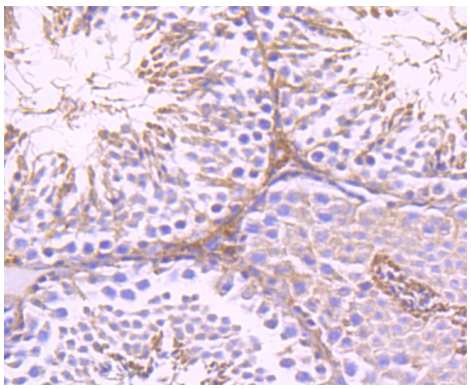
Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

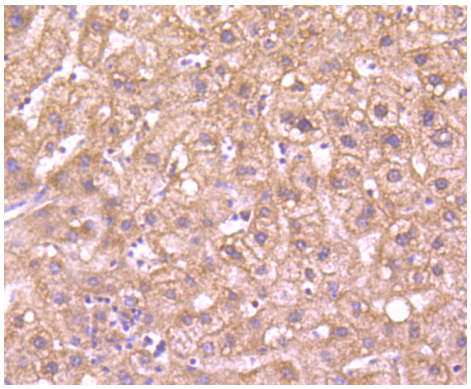
Images



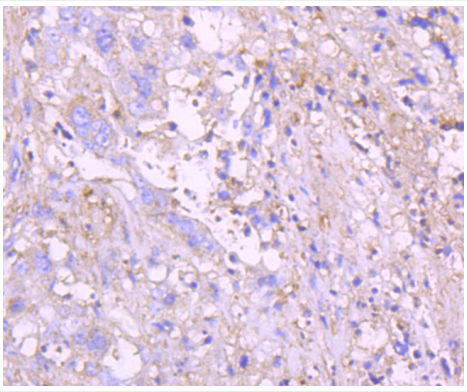
Western blot analysis of Glucose 6 Phosphate Dehydrogenase on A549 cell lysate using anti-Glucose 6 Phosphate Dehydrogenase antibody at 1/1,000 dilution.



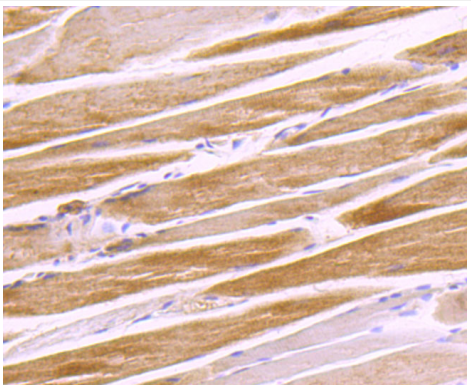
Immunohistochemical analysis of paraffin-embedded mouse testes tissue using anti-Glucose 6 Phosphate Dehydrogenase antibody. Counter stained with hematoxylin.



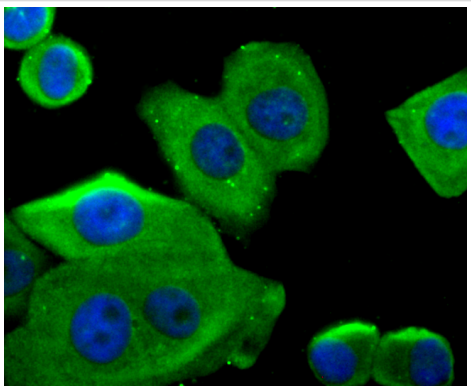
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Glucose 6 Phosphate Dehydrogenase antibody. Counter stained with hematoxylin.



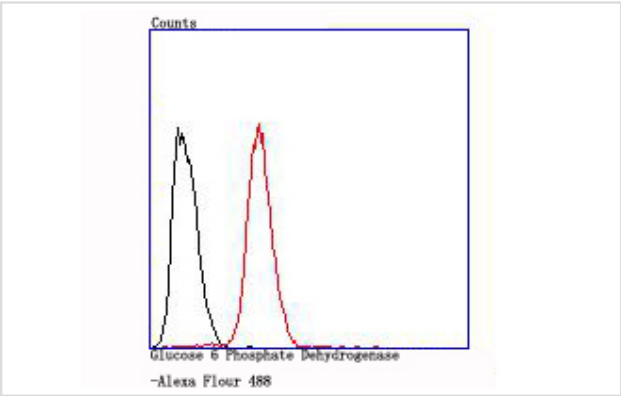
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue using anti-Glucose 6 Phosphate Dehydrogenase antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue using anti-Glucose 6 Phosphate Dehydrogenase antibody. Counter stained with hematoxylin.



ICC staining Glucose 6 Phosphate Dehydrogenase in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with Glucose 6 Phosphate Dehydrogenase antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

Background

Glucose-6-phosphate 1-dehydrogenase (G6PD) plays an important role in the pentose phosphate pathway. It is a member of the glucose-6-phosphate dehydrogenase family of proteins. G6PD is a ubiquitous enzyme that produces pentose sugars for nucleic acid synthesis, but is also involved in carbohydrate degradation, as it is one of the main producers of NADPH reducing power. G6PD has NADP as a co-factor and structural element. It can be found as a homodimer or homotetramer, and is primarily detected in lymphoblasts, granulocytes and sperm. Defects in G6PD can cause chronic non-spherocytic hemolytic anemia (CNSHA), especially in areas in which malaria is an epidemic. Individuals with a high level of G6PD-deficiency are at higher risk of acute hemolytic attacks.

References

Note: This product is for in vitro research use only