G6PD Mouse mAb

CatalogNo: YM0291

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- WB,IHC,IF,FC,ELISA

MW
- 59kD (Calculated)

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:200-1:1000
Flow Cyt 1:200-1:400
ELISA 1:10000
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Monoclonal

Immunogen Information

Immunogen	Purified recombinant fragment of human G6PD expressed in E. Coli.
Specificity	G6PD Monoclonal Antibody detects endogenous levels of G6PD protein.

Target Information

Gene name G6PD

Protein Name G6PD(Glucose 6 Phosphate Dehydrogenase)

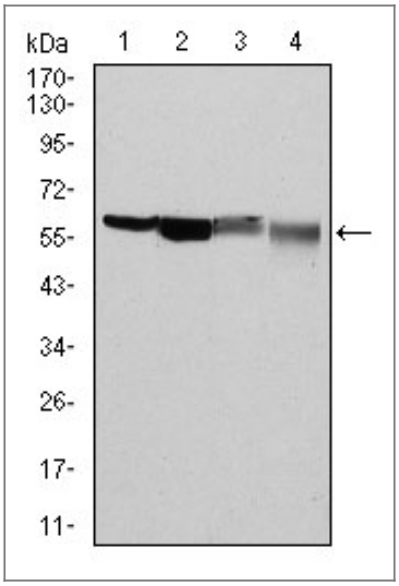
Organism	Gene ID	UniProt ID
Human	2539;	P11413;
Rat		P05370;

Cellular Localization Cytoplasm, cytosol . Membrane; Peripheral membrane protein .

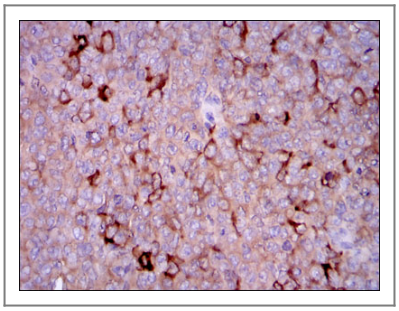
Tissue specificity Isoform Long is found in lymphoblasts, granulocytes and sperm.

Function Catalytic activity:D-glucose 6-phosphate + NADP(+) = D-glucono-1,5-lactone 6-phosphate + NADPH.,Disease:Defects in G6PD are the cause of chronic non-spherocytic hemolytic anemia (CNSHA) [MIM:305900]. Deficiency of G6PD is associated with hemolytic anemia in two different situations. First, in areas in which malaria has been endemic, G6PD-deficiency alleles have reached high frequencies (1% to 50%) and deficient individuals, though essentially asymptomatic in the steady state, have a high risk of acute hemolytic attacks. Secondly, sporadic cases of G6PD deficiency occur at a very low frequencies, and they usually present a more severe phenotype. Several types of CNSHA are recognized. Class-I variants are associated with severe NSHA; class-II have an activity <10% of normal; class-III have an activity of 10% to 60% of normal; class-IV have near normal activity.,Function:Produces pentose sugars for nucleic acid synthesis and main producer of NADPH reducing power.,miscellaneous:Has NADP both as cofactor (bound to the N-terminal domain) and as structural element bound to the C-terminal domain.,online information:G6PD deficiency resource,online information:G6PD mutation database,online information:The Singapore human mutation and polymorphism database,pathway:Carbohydrate degradation; pentose phosphate pathway.,pathway:Carbohydrate degradation; pentose phosphate pathway; D-ribulose 5-phosphate from D-glucose 6-phosphate (oxidative stage): step 1/3.,polymorphism:The sequence shown is that of variant B, the most common variant.,similarity:Belongs to the glucose-6-phosphate dehydrogenase family.,subunit:Homodimer or homotetramer.,tissue specificity:The long isoform is found in lymphoblasts, granulocytes and sperm.,

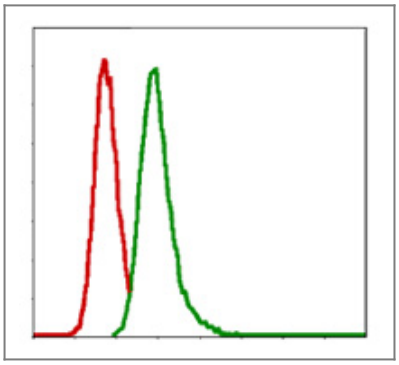
Validation Data



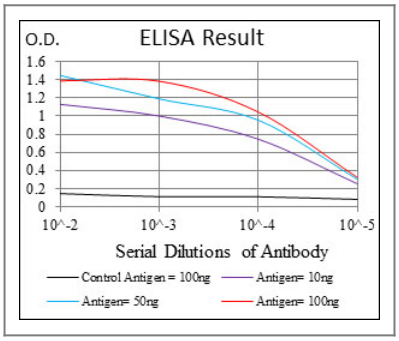
Western Blot analysis using G6PD Monoclonal Antibody against HeLa (1), MCF-7 (2), Jurkat (3) and K562 (4) cell lysate.



Immunohistochemistry analysis of paraffin-embedded ovarian cancer tissues with DAB staining using G6PD Monoclonal Antibody.



Flow cytometric analysis of MCF-7 cells using G6PD Monoclonal Antibody (green) and negative control (red).



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Please scan the QR code to access additional product information:
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