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Product datasheet for AM06694SU-N

Glucose 6 Phosphate Dehydrogenase (G6PD) Mouse Monoclonal Antibody [Clone ID: 5E12]

Product data:

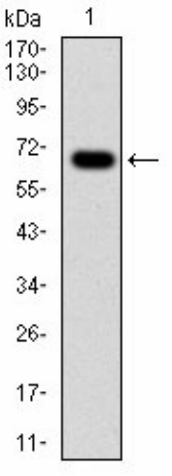
Product Type:	Primary Antibodies
Clone Name:	5E12
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	**Western Blot:** 1/500 - 1/2000. **Immunohistochemistry on paraffin sections**: 1/200 - 1/1000. **Flow cytometry:** 1/200 - 1/400. **ELISA**: 1/10000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human G6PD expressed in E. Coli.
Specificity:	This antibody reacts to G6PD.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	59 kDa
Gene Name:	glucose-6-phosphate dehydrogenase
Database Link:	Entrez Gene 2539 Human P11413

View online »

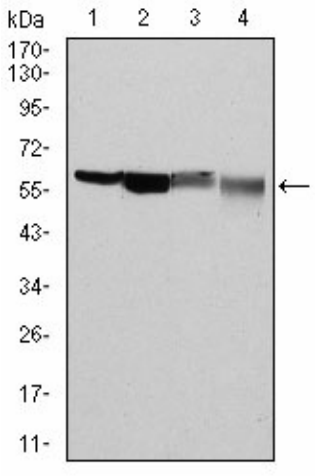
Background: This gene encodes glucose-6-phosphate dehydrogenase. This protein is a cytosolic enzyme encoded by a housekeeping X-linked gene whose main function is to produce NADPH, a key electron donor in the defense against oxidizing agents and in reductive biosynthetic reactions. G6PD is remarkable 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: Glucose-6-phosphate 1-dehydrogenase, Glucose-6-P-Dehydrogenase

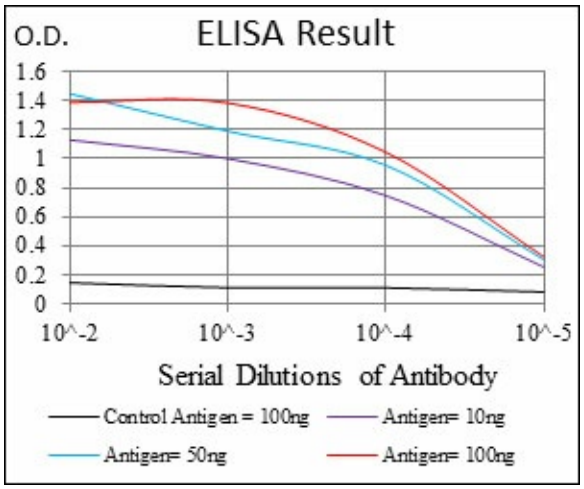
Product images:



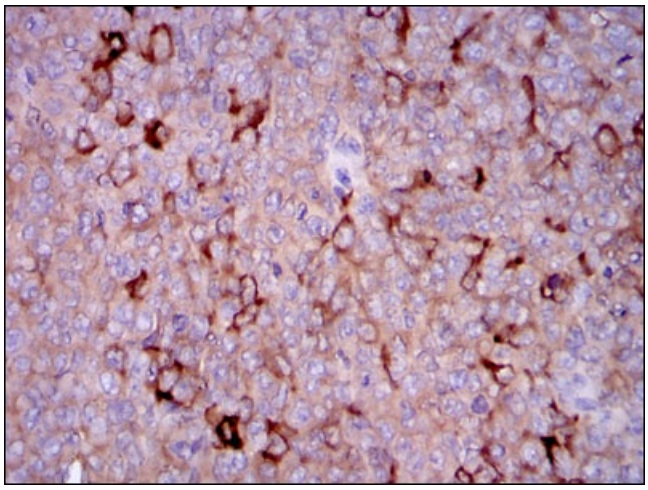
Western blot analysis using G6PD mAb against human G6PD (AA: 275-515) recombinant protein. (Expected MW is 53.1 kDa)



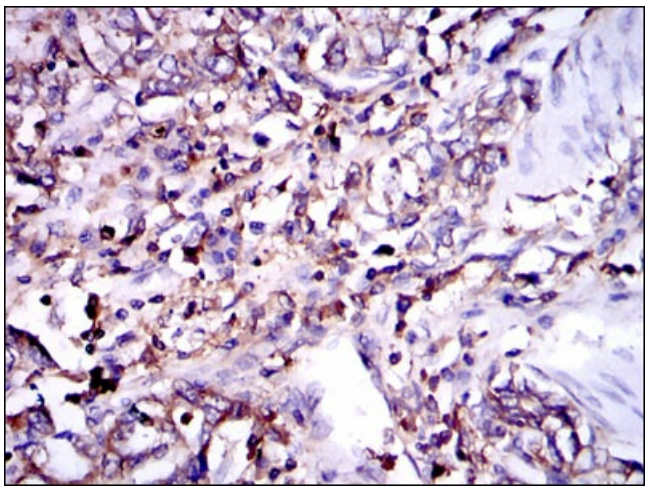
Western blot analysis using G6PD mouse mAb against Hela (1), MCF-7 (2), Jurkat (3) and K562 (4) cell lysate. Western blot analysis using G6PD mouse mAb against Hela (1), MCF-7 (2), Jurkat (3) and K562 (4) cell lysate.



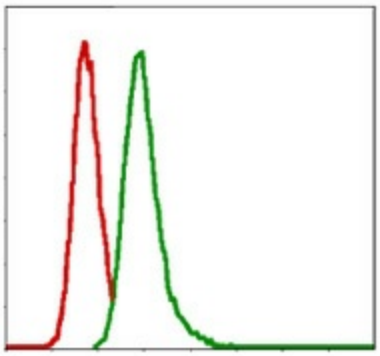
Red: Control Antigen (100ng) Purple: Antigen (10ng) Green: Antigen (50ng) Blue: Antigen (100ng)



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



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



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