Glucose 6-Phosphate Isomerase Antibody

Mouse Monoclonal Antibody [Clone CPTC-GPI-1]

Catalog No	Format	Size
2821-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2821-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2821-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

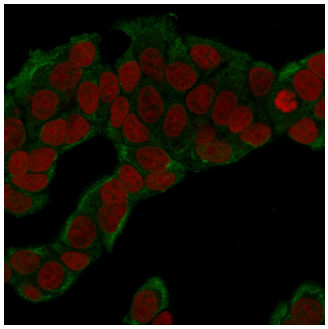
Applications	Tested Dillution	Note
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

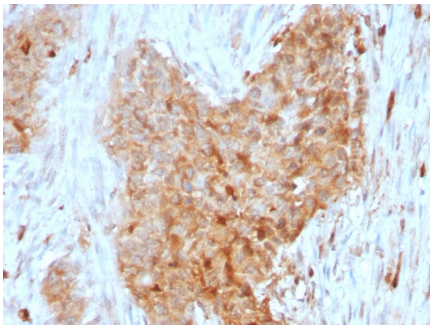
Clone	CPTC-GPI-1
Gene Name	GPI
Immunogen	Recombinant human full-length GPI protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	55kDa
Cellular Localization	Cytoplasm, Secreted
Species Reactivity	Human
Positive Control	HepG2 and A549 cells. Human Kidney or Brain, MCF-7, pancreas or thyroid carcinoma., PC3, T47D

**Optimal dilution for a specific application should be determined.*

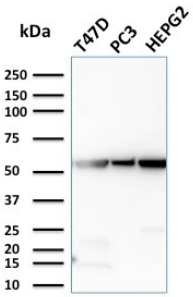
Product Images for Glucose 6-Phosphate Isomerase Antibody



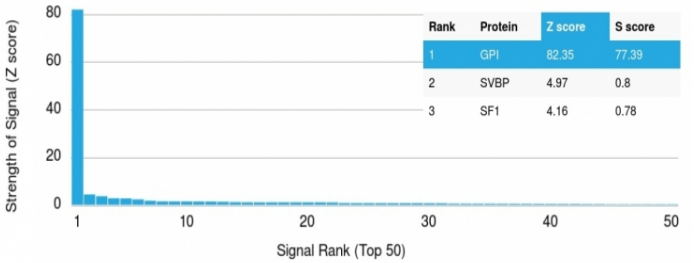
Immunofluorescence Analysis of human MCF-7 cells labeling GPI with GPI Mouse Monoclonal Antibody (CPTC-GPI-1) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)



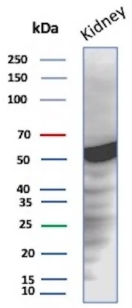
Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with GPI Mouse Monoclonal Antibody (CPTC-GPI-1).



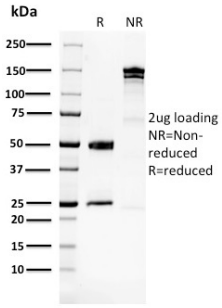
Western Blot Analysis of T47D, PC3, HePG2 cell lysates using GPI Mouse Monoclonal Antibody (CPTC-GPI-1).



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Glucose 6-Phosphate Isomerase Monoclonal Antibody (CPTC-GPI-1). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Western blot analysis of Human Kidney tissue lysate using GPI Mouse Monoclonal Antibody (CPTC-GPI-1).



SDS-PAGE Analysis Purified GPI Mouse Monoclonal Antibody (CPTC-GPI-1). Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

Besides it's role as a glycolytic enzyme, mammalian GPI can function as a tumor-secreted cytokine and an angiogenic factor (AMF) that stimulates endothelial cell motility. GPI is also a neurotrophic factor (Neuroleukin) for spinal and sensory neurons. Defects in GPI are the cause of hemolytic anemia non-spherocytic due to glucose phosphate isomerase deficiency.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Immunology, Colon Cancer, Transcription Factors

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

2 Union Square, Union City, CA 94587, Tel: 1-866-2-NEOBIO (1-866-263-6246)
orders@NeoBiotechnologies.com, www.NeoBiotechnologies.com

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