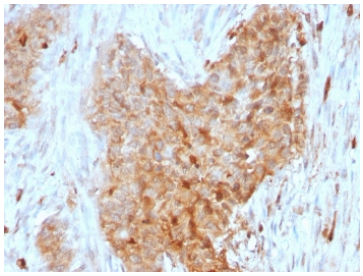
Glucose 6-Phosphate Isomerase Antibody / GPI [clone CPTC-GPI-1] (V7817)

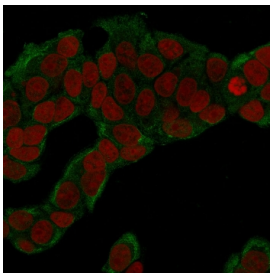
Catalog No.	Formulation	Size
V7817-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7817-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7817SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

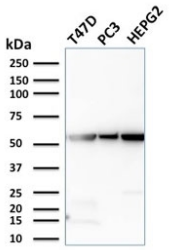
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	CPTC-GPI-1
Purity	Protein G affinity chromatography
UniProt	P06744
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Glucose 6-Phosphate Isomerase antibody is available for research use only.



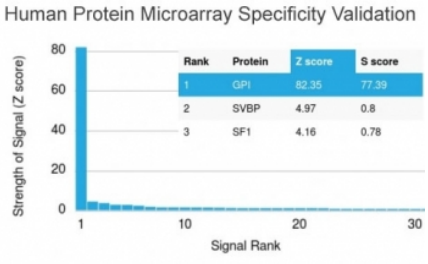
IHC staining of FFPE human breast carcinoma with Glucose 6-Phosphate Isomerase antibody (clone CPTC-GPI-1). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



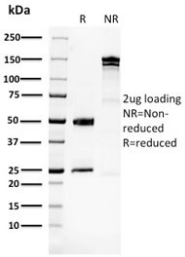
Immunofluorescence staining of fixed human MCF-7 cells with Glucose 6-Phosphate Isomerase antibody (green, clone CPTC-GPI-1) and Reddot nuclear stain (red).



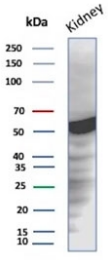
Western blot testing of human T-47D, PC3 and HePG2 cell lysate with Glucose 6-Phosphate Isomerase antibody. Predicted molecular weight: ~63 kDa.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Glucose 6-Phosphate Isomerase antibody (clone CPTC-GPI-1). These results demonstrate the foremost specificity of the CPTC-GPI-1 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free Glucose 6-Phosphate Isomerase antibody (clone CPTC-GPI-1) as confirmation of integrity and purity.



Western blot testing of human kidney tissue lysate with Glucose 6-Phosphate Isomerase antibody. Predicted molecular weight: ~63 kDa.

Description

In addition to 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.

Application Notes

Optimal dilution of the Glucose 6-Phosphate Isomerase antibody should be determined by the researcher.

Immunogen

A recombinant human full-length protein was used as the immunogen for the Glucose 6-Phosphate Isomerase antibody.

Storage

Store the Glucose 6-Phosphate Isomerase antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).