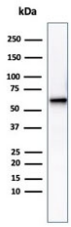
Phosphoglucomutase 5 Antibody / PGM5 / Aciculin [clone PGM5/3552] (V9692)

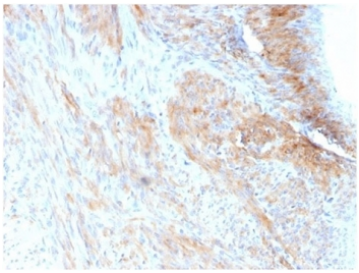
Catalog No.	Formulation	Size
V9692-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9692-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9692SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

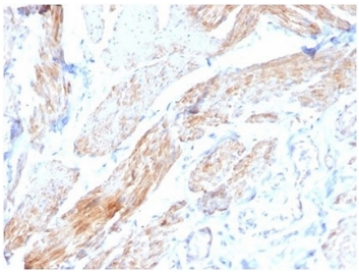
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	PGM5/3552
Purity	Protein A/G affinity
UniProt	Q15124
Localization	Cytoplasm
Applications	ELISA (order BSA-free Format For Coating) : Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Phosphoglucomutase 5 antibody is available for research use only.



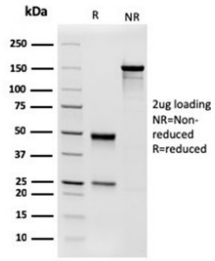
Western blot testing of human heart tissue lysate using Phosphoglucomutase 5 antibody (clone PGM5/3552). Predicted molecular weight ~62 kDa.



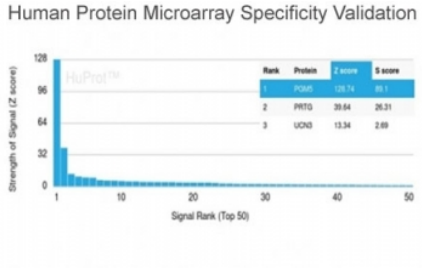
IHC staining of FFPE human uterus with Phosphoglucomutase 5 antibody (clone PGM5/3552)at 2ug/ml. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human bladder tissue with Phosphoglucomutase 5 antibody (clone PGM5/3552) at 2ug/ml. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Phosphoglucomutase 5 antibody (clone PGM5/3552) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Phosphoglucomutase 5 antibody (clone PGM5/3552). These results demonstrate the foremost specificity of the PGM5/3552 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.

Description

Aciculin, also known as PGM5 (phosphoglucomutase 5) or PGMRP, is a 567 amino acid protein that belongs to the phosphoglucomutase family of phosphotransferases, which play an important role in the interconversion of glucose-1-phosphate and glucose-6-phosphate. Localized to the cell junction and expressed at high levels in smooth and cardiac muscle, Aciculin binds magnesium as a cofactor and interacts with dystrophin and utrophin, possibly playing a role in cytoskeletal organization and function. Aciculin exists as two alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome.

Application Notes

Optimal dilution of the Phosphoglucomutase 5 antibody should be determined by the researcher.

Immunogen

Recombinant full-length human protein was used as the immunogen for the Phosphoglucomutase 5 antibody.

Storage

Aliquot the Phosphoglucomutase 5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.