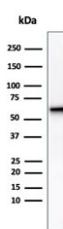


## Phosphoglucomutase 5 Antibody / PGM5 / Aciculin [clone PGM5/3552] (V9692)

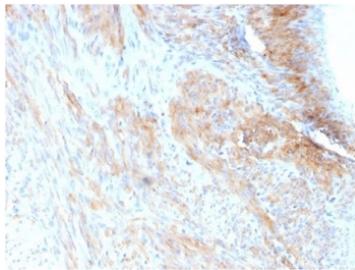
Catalog No.	Formulation	Size
V9692-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9692-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9692SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

**Bulk quote request**

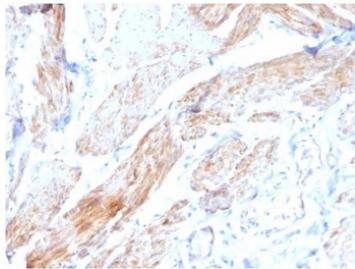
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	PGM5/3552
Purity	Protein A/G affinity
UniProt	Q15124
Localization	Cytoplasm
Applications	ELISA (order BSA-free Format For Coating) : Western Blot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



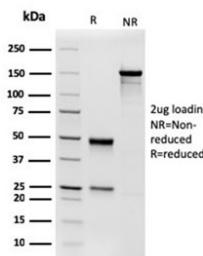
Western blot testing of human heart tissue lysate using Phosphoglucomutase 5 antibody (clone PGM5/3552). Predicted molecular weight ~62 kDa.



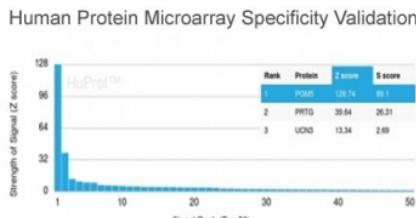
IHC staining of FFPE human uterus with Phosphoglucomutase 5 antibody (clone PGM5/3552) at 2ug/ml. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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™ 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™ 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™ 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.