

For Research Use Only

# PGM5 Recombinant antibody

Catalog Number: 82965-1-RR



## Basic Information

<b>Catalog Number:</b> 82965-1-RR	<b>GenBank Accession Number:</b> NM_021965	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 ug/ml	<b>GeneID (NCBI):</b> 5239	<b>CloneNo.:</b> 230206C7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q15124	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000
<b>Isotype:</b> IgG	<b>Full Name:</b> phosphoglucomutase 5	
<b>Immunogen Catalog Number:</b> AG34399	<b>Calculated MW:</b> 62 kDa	
	<b>Observed MW:</b> 62 kDa	

## Applications

**Tested Applications:**  
WB, IHC, FC (Intra), ELISA

**Species Specificity:**  
human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : HeLa cells, HepG2 cells, PC-3 cells

IHC : human stomach tissue,

## Background Information

Phosphoglucomutase-like protein 5 (also known as aciculin) is an enzyme encoded by the PGM5 gene. Gene functional studies show that PGM5 is similar to PGM1 but lacks enzymatic activity. PGM5 is tightly associated with the actin cytoskeleton and has primarily been investigated as an adhesion protein. It also functions as a cytoskeletal component of cell-matrix and cell-cell contacts in muscle and non-muscle cells. (PMID: 35819729)

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

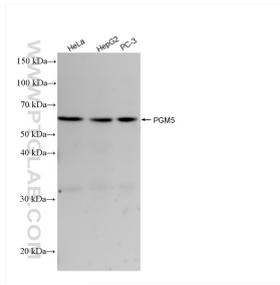
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

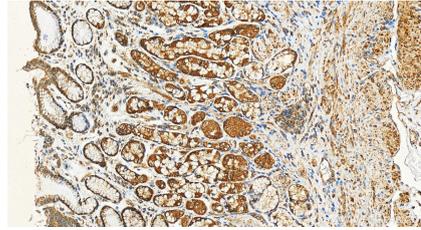
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

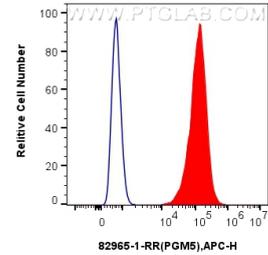
## Selected Validation Data



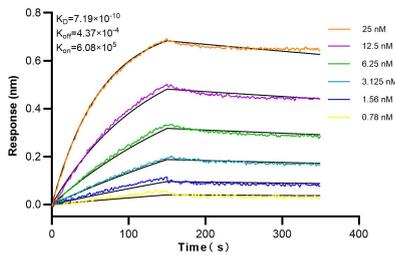
Various lysates were subjected to SDS PAGE followed by western blot with 82965-1-RR (PGM5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human normal stomach slide using 82965-1-RR (PGM5 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  PC-3 cells were intracellularly stained with 0.25  $\mu$ g Anti-Human PGM5 (82965-1-RR, Clone:230206C7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 82965-1-RR against Human PGM5 were performed. The affinity constant is 0.719 nM.