

For Research Use Only

# PGK1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87478-1-PBS



## Basic Information

<b>Catalog Number:</b> 87478-1-PBS	<b>GenBank Accession Number:</b> BC103752	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5230	<b>CloneNo.:</b> 252909A5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P00558	
<b>Isotype:</b> IgG	<b>Full Name:</b> phosphoglycerate kinase 1	
<b>Immunogen Catalog Number:</b> AG12119	<b>Calculated MW:</b> 417 aa, 45 kDa	
	<b>Observed MW:</b> 40-45 kDa	

## Applications

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

**Species Specificity:**  
human, mouse, rat

## Background Information

PGK1, also known as PGKA, belongs to the phosphoglycerate kinase family. PGK1 is the first ATP-generating enzyme in glycolysis, which catalyzes the conversion of 1,3-diphosphoglycerate (1,3-BPG) to 3-phosphoglycerate (3-PG) and produces one molecule of ATP. PGK1 has other functions besides regulating glycolytic metabolism, including mediating autophagy initiation, DNA replication and repair in mammal cell nuclei (PMID: 31815035, PMID: 31911580).

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

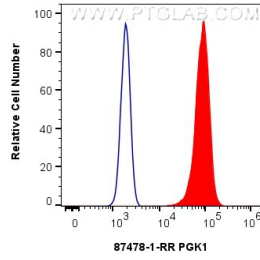
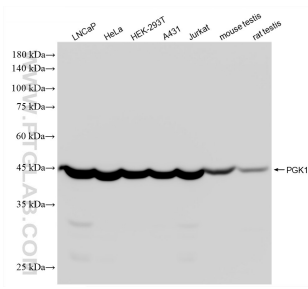
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87478-1-RR (PGK1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87478-1-PBS in a different storage buffer formulation.

$1 \times 10^6$  HeLa cells were intracellularly stained with 0.25 ug PGK1 Recombinant monoclonal antibody (87478-1-RR, Clone:252909A5) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019). This data was developed using the same antibody clone with 87478-1-PBS in a

