

For Research Use Only

# PGK1 Recombinant monoclonal antibody

Catalog Number: 87478-1-RR



## Basic Information

**Catalog Number:**

87478-1-RR

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG12119

**GenBank Accession Number:**

BC103752

**GeneID (NCBI):**

5230

**UNIPROT ID:**

P00558

**Full Name:**

phosphoglycerate kinase 1

**Calculated MW:**

417 aa, 45 kDa

**Observed MW:**

40-45 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

252909A5

**Recommended Dilutions:**

WB: 1:5000-1:50000

FC (Intra): 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

**Tested Applications:**

WB, FC (Intra), ELISA

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

WB : LNCaP cells, HeLa cells, HEK-293T cells, A431 cells, Jurkat cells, mouse testis tissue, rat testis tissue

FC (Intra) : HeLa cells,

## 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 -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

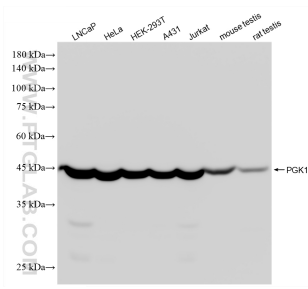
T: 4006900926

E: Proteintech-CN@ptglab.com

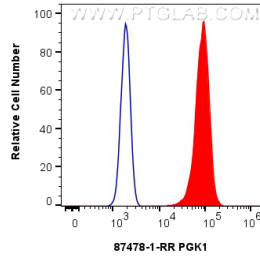
W: ptgcn.com

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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.



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.25  $\mu$ g 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  $\mu$ g Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).