For Research Use Only

CoraLite® Plus 488-conjugated PGK1 Monoclonal antibody

Catalog Number:CL488-68035

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
CL488-68035

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG12099

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 G purification

CloneNo.:
1B2F3

Recommended Dilutions:
IF/ICC: 1:50-1:500
FC (Intra): 0.80 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Species Specificity:
human

Positive Controls:

IF/ICC : A431 cells, HepG2 cells

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. PGK1 has 2 isoforms with the molecular mass of 41 and 45 kDa (PMID: 31815035, PMID: 31911580).

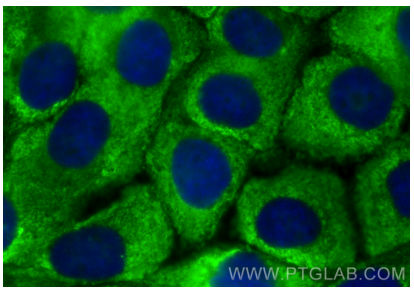
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

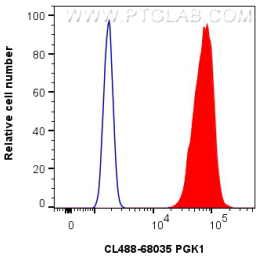
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using CoraLite® Plus 488 PGK1 antibody (CL488-68035, Clone: 1B2F3) at dilution of 1:200.



1x10^6 HeLa cells were intracellularly stained with 0.8 ug CoraLite® Plus 488-conjugated PGK1 Monoclonal antibody (CL488-68035, Clone:1B2F3) (red), or 0.8 ug CoraLite® Plus 488 Mouse IgG1 Isotype Control (1F8D3) (CL488-66360-1, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.