

ADPGK Monoclonal antibody

Catalog Number: 68034-1-Ig

Basic Information

Catalog Number:

68034-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG31242

GenBank Accession Number:

BC006112

GeneID (NCBI):

83440

UNIPROT ID:

Q9BRR6

Full Name:

ADP-dependent glucokinase

Calculated MW:

497 aa, 54 kDa

Observed MW:

51 kDa

Purification Method:

Protein G purification

CloneNo.:

2B4B8

Recommended Dilutions:

WB 1:2000-1:10000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human

Positive Controls:

WB : A549 cells, HeLa cells, human placenta tissue, LNCaP cells, THP-1 cells, Jurkat cells, K-562 cells

Background Information

ADP-dependent glucokinase (ADPGK) has first been described 1994 in hyperthermophilic archaea as a novel glucose-phosphorylating enzyme dependent on ADP (adenosine diphosphate) instead of ATP (adenosine triphosphate). Highest ADPGK expression is found in immune cells of both myeloid and lymphoid lineages. Catalyzes the phosphorylation of D-glucose to D-glucose 6-phosphate using ADP as the phosphate donor. GDP and CDP can replace ADP, but with reduced efficiency (By similarity).

Storage

Storage:

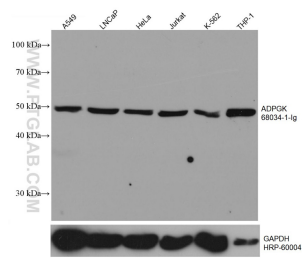
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

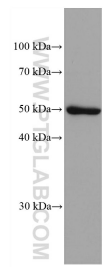
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

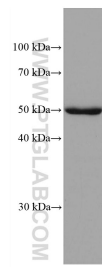
Selected Validation Data



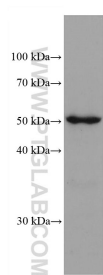
Various lysates were subjected to SDS PAGE followed by western blot with 68034-1-Ig (ADPGK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



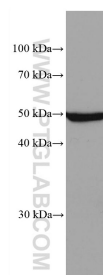
LNCaP cells were subjected to SDS PAGE followed by western blot with 68034-1-Ig (ADPGK antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



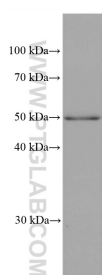
A549 cells were subjected to SDS PAGE followed by western blot with 68034-1-Ig (ADPGK antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



HeLa cells were subjected to SDS PAGE followed by western blot with 68034-1-Ig (ADPGK antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



THP-1 cells were subjected to SDS PAGE followed by western blot with 68034-1-Ig (ADPGK antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



human placenta tissue were subjected to SDS PAGE followed by western blot with 68034-1-Ig (ADPGK antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.