

For Research Use Only

ADPGK Monoclonal antibody

Catalog Number: 68034-1-Ig



Basic Information

Catalog Number: 68034-1-Ig	GenBank Accession Number: BC006112	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 83440	CloneNo.: 2B4B8
Source: Mouse	UNIPROT ID: Q9BRR6	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG1	Full Name: ADP-dependent glucokinase	
Immunogen Catalog Number: AG31242	Calculated MW: 497 aa, 54 kDa	
	Observed MW: 51 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : A549 cells, HeLa cells, human placenta tissue, LNCaP cells, THP-1 cells, Jurkat cells, K-562 cells
Species Specificity: Human	

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

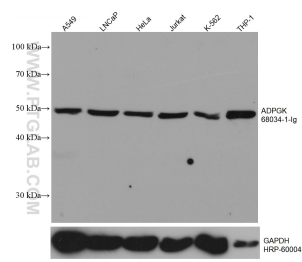
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

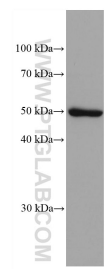
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

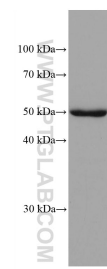
Selected Validation Data



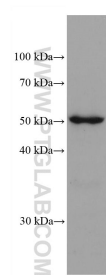
Various lysates were subjected to SDS PAGE followed by western blot with 68034-1-Ig (ADPGK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



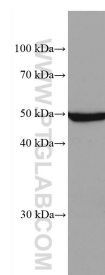
LNCaP cells were subjected to SDS PAGE followed by western blot with 68034-1-Ig (ADPGK antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



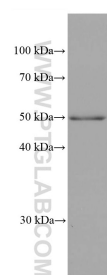
A549 cells were subjected to SDS PAGE followed by western blot with 68034-1-Ig (ADPGK antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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.