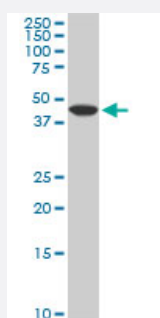


ADPGK monoclonal antibody (M01), clone 1E4

Catalog # H00083440-M01

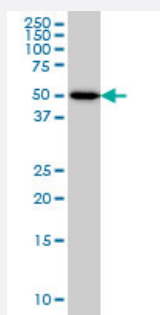
Size 100 ug

Applications



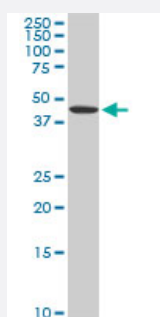
Western Blot (Cell lysate)

ADPGK monoclonal antibody (M01), clone 1E4. Western Blot analysis of ADPGK expression in PC-12(Cat # L012V1).



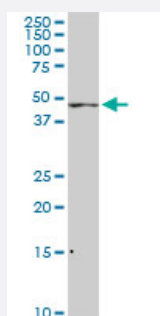
Western Blot (Cell lysate)

ADPGK monoclonal antibody (M01), clone 1E4 Western Blot analysis of ADPGK expression in HeLa (Cat # L013V1).



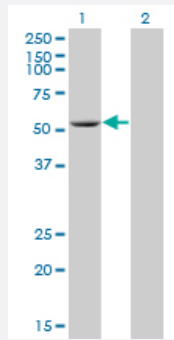
Western Blot (Cell lysate)

ADPGK monoclonal antibody (M01), clone 1E4. Western Blot analysis of ADPGK expression in Raw 264.7(Cat # L024V1).



Western Blot (Cell lysate)

ADPGK monoclonal antibody (M01), clone 1E4. Western Blot analysis of ADPGK expression in NIH/3T3(Cat # L018V1).

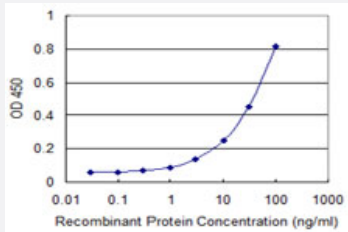


Western Blot (Transfected lysate)

Western Blot analysis of ADPGK expression in transfected 293T cell line by ADPGK monoclonal antibody (M01), clone 1E4.

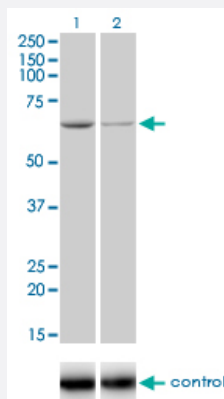
Lane 1: ADPGK transfected lysate(54.1 KDa).

Lane 2: Non-transfected lysate.



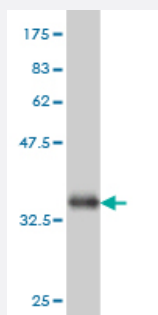
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ADPGK is 0.3 ng/ml as a capture antibody.



RNAi Knockdown (Antibody validated)

Western blot analysis of ADPGK over-expressed 293 cell line, cotransfected with ADPGK Validated Chimera RNAi (Cat # H00083440-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with ADPGK monoclonal antibody (M01), clone 1E4 (Cat # H00083440-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (33.66 kDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant ADPGK.

Immunogen

ADPGK (NP_112574, 425 a.a. ~ 496 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 kDa.

Sequence	SLRAPQEFMTSHSEAGSRIVLNPNKPVVEWHREGISFHFTPVLVCKDPIRTVGLGDAISAEGLFYS EVHPHY
Host	Mouse
Reactivity	Human, Mouse, Rat
Interspecies Antigen Sequence	Mouse (91); Rat (92)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (33.66 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

ADPGK monoclonal antibody (M01), clone 1E4. Western Blot analysis of ADPGK expression in PC-12(Cat # L012V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

ADPGK monoclonal antibody (M01), clone 1E4 Western Blot analysis of ADPGK expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

ADPGK monoclonal antibody (M01), clone 1E4. Western Blot analysis of ADPGK expression in Raw 264.7(Cat # L024V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

ADPGK monoclonal antibody (M01), clone 1E4. Western Blot analysis of ADPGK expression in NIH/3T3(Cat # L018V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of ADPGK expression in transfected 293T cell line by ADPGK monoclonal antibody (M01), clone 1E4.

Lane 1: ADPGK transfected lysate(54.1 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ADPGK is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of ADPGK over-expressed 293 cell line, cotransfected with ADPGK Validated Chimera RNAi (Cat # H00083440-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with ADPGK monoclonal antibody (M01), clone 1E4 (Cat # H00083440-M01). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

Gene Info — ADPGK

Entrez GeneID [83440](#)

GeneBank Accession# [NM_031284](#)

Protein Accession# [NP_112574](#)

Gene Name ADPGK

Gene Alias 2610017G09Rik, ADP-GK, DKFZp434B195

Gene Description ADP-dependent glucokinase

Gene Ontology [Hyperlink](#)

Gene Summary ADPGK (EC 2.7.1.147) catalyzes the ADP-dependent phosphorylation of glucose to glucose-6-phosphate and may play a role in glycolysis, possibly during ischemic conditions (Ronimus and Morgan, 2004 [PubMed 14975750]).[supplied by OMIM]

Other Designations

ATP-dependent glucokinase

Publication Reference

- [Zinc Finger Nuclease Mediated Knockout of ADP-Dependent Glucokinase in Cancer Cell Lines: Effects on Cell Survival and Mitochondrial Oxidative Metabolism.](#)

Susan Richter, Shona Morrison, Tim Connor, Jiechuang Su, Cristin G Print, Ron S Ronimus, Sean L McGee, William R Wilson
PLoS One 2013 Jun; 8(6):e65267.

Application: WB-Ti, WB-Tr, Human, Mouse, HCT-116 cells, HCT-116-tumor xenografts from mice, Mouse liver, NCI-H460 cells

- [Expression and role in glycolysis of human ADP-dependent glucokinase.](#)

Richter S, Richter JP, Mehta SY, Gribble AM, Sutherland-Smith AJ, Stowell KM, Print CG, Ronimus RS, Wilson WR.
Molecular and Cellular Biochemistry 2012 Jan; 364(1-2):131.

Application: WB, Human, SiHa, C33A, H460, H1299, A549, HT29, HCT116, MDA231, MiaPaca2, A2780, PC3, 22Rv1, HepG2, SCOV3, HCT8, A431, Panc01, H522, Hep3B, DI145, FaDu, H69, H82

Disease

- [Tobacco Use Disorder](#)