

For Research Use Only

AK2 Monoclonal antibody, PBS Only

Catalog Number: 66127-1-PBS

Featured Product



Basic Information

Catalog Number:

66127-1-PBS

Size:

1 mg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG17911

GenBank Accession Number:

BC009405

GeneID (NCBI):

204

UNIPROT ID:

P54819

Full Name:

adenylate kinase 2

Calculated MW:

26 kDa

Observed MW:

29 kDa

Purification Method:

Protein A purification

CloneNo.:

3H2C10

Applications

Tested Applications:

WB, Indirect ELISA, IHC, IF, FC

Species Specificity:

human, rat, mouse

Background Information

AK2 (Adenylate kinase 2, mitochondrial) is also named as ADK2 and belongs to the adenylate kinase family. It plays a unique role in energy metabolism and energy transfer by regulating the ATP/ADP rate between the cytoplasmic matrix and the mitochondria and it is increased expression during adipocyte and B cell differentiation (PMID:23020757). AK2 catalyzes the reversible transfer of a phosphoryl group from ATP to AMP (PMID:19043417). Defects in AK2 are the cause of reticular dysgenesis (RDYS) (PMID:19043416). It has 6 isoforms produced by alternative splicing.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

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

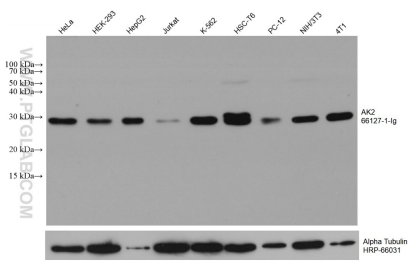
T: 4006900926

E: Proteintech-CN@ptglab.com

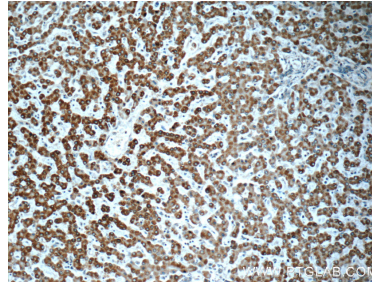
W: ptgcn.com

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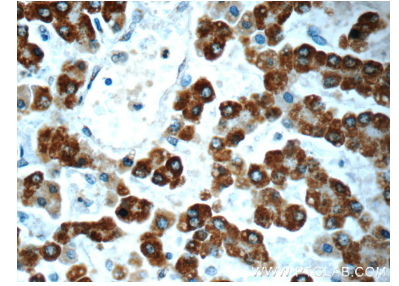
Selected Validation Data



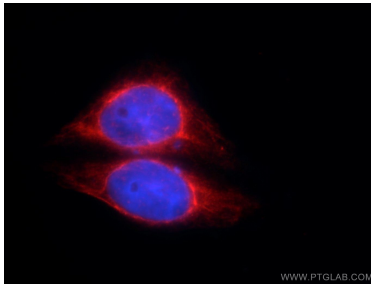
Various lysates were subjected to SDS PAGE followed by western blot with 66127-1-Ig (AK2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control. This data was developed using the same antibody clone with 66127-1-PBS in a different storage buffer formulation.



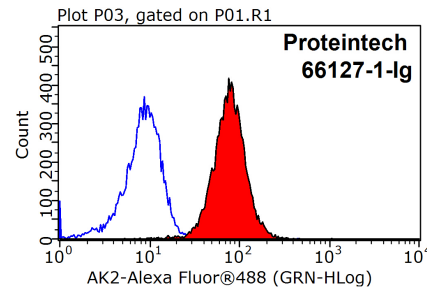
Immunohistochemical analysis of paraffin-embedded human liver slide using 66127-1-Ig (AK2 Antibody) at dilution of 1:50. This data was developed using the same antibody clone with 66127-1-PBS in a different storage buffer formulation.



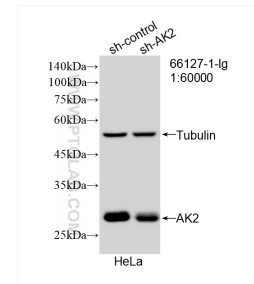
Immunohistochemical analysis of paraffin-embedded human liver slide using 66127-1-Ig (AK2 Antibody) at dilution of 1:50. This data was developed using the same antibody clone with 66127-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of HepG2 cells using 66127-1-Ig (AK2 antibody) at dilution of 1:50 and Rhodamine-Goat anti-Mouse IgG. This data was developed using the same antibody clone with 66127-1-PBS in a different storage buffer formulation.



1×10^6 HepG2 cells were stained with .2ug AK2 antibody (66127-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000. This data was developed using the same antibody clone with 66127-1-PBS in a different storage buffer formulation.



WB result of AK2 antibody (66127-1-Ig; 1:60000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AK2 transfected HeLa cells. This data was developed using the same antibody clone with 66127-1-PBS in a different storage buffer formulation.