For Research Use Only

CoraLite®594-conjugated AK2 Monoclonal antibody

Catalog Number:CL594-66127 Featured Product

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

Basic Information

Catalog Number:
CL594-66127

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

Recommended Dilutions:
IF/ICC: 1:50-1:500
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
588 nm / 604 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Species Specificity:
human

Positive Controls:

IF/ICC : HepG2 cells,

FC (Intra) : HepG2 cells,

Background Information

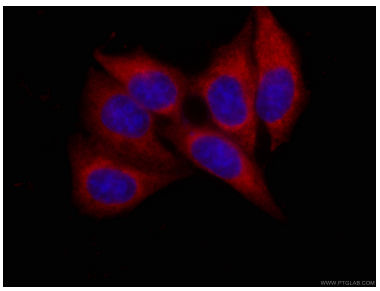
AK2(Adenylate kinase 2, mitochondrial) is also named as ADK2 and belongs to the adenylate kinase family. It plays a unique role in energy metabolism and energy transfer by regulating the ATP/ADP rate between the cytoplasma matrix and the mitochondria and it is increased expression during adipocyte and 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

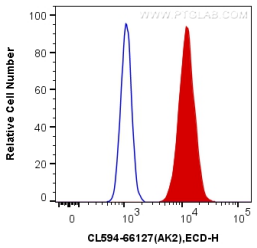
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

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

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CL594-66127 (AK2 antibody) at dilution of 1:100.



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human AK2 (CL594-66127, Clone:3H2C10) (red), or 0.4 ug Mouse IgG2a Isotype Control (CL594-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.