A4466

Leader in Biomolecular Solutions for Life Science

[KO Validated] PEPCK/PCK2 Rabbit mAb

Catalog No.: A4466

KO Validated Recombinant

Basic Information

Observed MW 71kDa

Calculated MW 71kDa

Category SMab Recombinant Monoclonal Antibody

Applications WB,IF/ICC,ELISA

Cross-Reactivity Human,Mouse,Rat

CloneNo number ARC1017

Background

This gene encodes a mitochondrial enzyme that catalyzes the conversion of oxaloacetate to phosphoenolpyruvate in the presence of guanosine triphosphate (GTP). A cytosolic form of this protein is encoded by a different gene and is the key enzyme of gluconeogenesis in the liver. Alternatively spliced transcript variants have been described.

Recommended Dilutions

Immunogen Information

1:500 - 1:1000 Gene ID Swiss Prot 5106 Q16822 1:50 - 1:200

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 550-640 of human PEPCK/PEPCK/PCK2 (Q16822).

Synonyms

PEPCK; PEPCK2; PEPCK-M; K2

WB

IF/ICC

Product Information

www.abclonal.com

lsotype IgG Purification Affinity purification

Storage

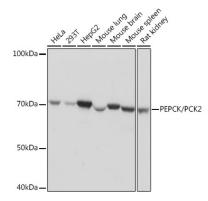
Source

Rabbit

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.



Validation Data



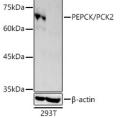
Western blot analysis of various lysates using PEPCK/PEPCK/PCK2 Rabbit mAb (A4466) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

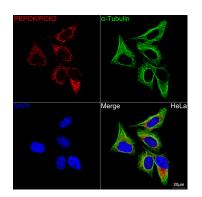
Western blot analysis of lysates from wild type(WT) and PEPCK/PCK2 knockout (KO) 293T cells, using [KO Validated] PEPCK/PCK2 Rabbit mAb (A4466) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

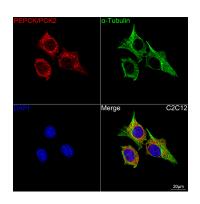
18000 King buffer: 3% nonfat dry milk in TBST. 14000 Detection: ECL Basic Kit (RM00020).







Confocal imaging of HeLa cells using [KO Validated] PEPCK/PCK2 Rabbit mAb (A4466, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of C2C12 cells using [KO Validated] PEPCK/PCK2 Rabbit mAb (A4466, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.