Rabbit PCK2 Monoclonal Antibody | anti-PCK2 antibody

PCK2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA30447	**Rabbit**	**Human, Mouse, Rat**	**Western Blot, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Flow Cytometry, Functional Assay**

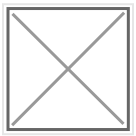
PRODUCT SYNONYMS

PCK2; Monoclonal Antibody; PCK2 Antibody; EC 4.1.1.32 antibody; GTP mitochondrial precursor antibody; HGNC:8725 antibody; mitochondrial antibody; Mitochondrial phosphoenolpyruvate carboxykinase 2 antibody; OTTHUMP00000164700 antibody; PCK2 antibody; PCKGM_HUMAN antibody; PE antibody; PEP carboxykinase antibody; PEPCK antibody; PEPCK deficiency mitochondrial antibody; PEPCK M antibody; PEPCK-M antibody; PEPCK2 antibody; Phosphoenolpyruvate carboxykinase [GTP] antibody; Phosphoenolpyruvate carboxykinase 2 (mitochondrial) antibody; Phosphoenolpyruvate carboxykinase 2 mitochondrial antibody; Phosphoenolpyruvate carboxylase antibody; Phosphopyruvate carboxylase antibody; anti-PCK2 antibody

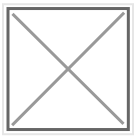
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	JB52-39
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-PCK2 antibody	WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 1:500-1:1000 IHC: 1:50-1:200 ICC: 1:50-1:100 FC/FACS: 1:50-1:100
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

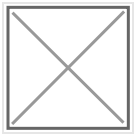
IMAGES



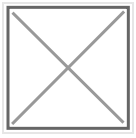
FCM (Flow Cytometry)
Flow cytometric analysis of MCF-7 cells with PCK2 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



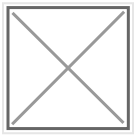
ICC (Immunocytochemistry)
ICC staining PCK2 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



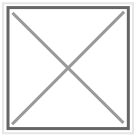
ICC (Immunocytochemistry)
ICC staining PCK2 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



IHC (Immunohistchemistry)
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-PCK2 antibody. Counter stained with hematoxylin.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-PCK2 antibody. Counter stained with hematoxylin.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-PCK2 antibody. Counter stained with hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-PCK2 antibody	Normal adjustment to changes in blood glucose levels depends on Insulin signaling as well as enzymes involved in the regulation of gluconeogenesis. Pathological changes to this process are central to the type 2 diabetes phenotype. Phosphoenolpyruvate carboxykinase (PEPCK) plays an important role in this process by stimulating hepatic glucose production. PEPCK expression increases in response to glucagon and glucocorticoids, while Insulin suppresses expression. Modulation of the signals governing PEPCK levels present a potential therapeutic approach to the treatment of Insulin resistance and consequently obesity. The cytosolic form of PEPCK, known as PEPCK-C, and the mitochondrial form, known as PEPCK-M, are encoded by two different nuclear genes in mouse, human and chicken.
Product Categories/Family for anti-PCK2 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	614458223
NCBI GeneID	5106
NCBI Accession #	NP_001018083
NCBI GenBank Nucleotide #	NM_001018073
UniProt Accession #	Q16822; O43253; Q86U01; Q9BV62
Molecular Weight	47,564 Da
NCBI Official Full Name	phosphoenolpyruvate carboxykinase
NCBI Official Synonym Full Names	phosphoenolpyruvate carboxykinase 2 (mitochondrial)
NCBI Official Symbol	PCK2
NCBI Official Synonym Symbols	PEPCK; PEPCK2; PEPCK-M
NCBI Protein Information	phosphoenolpyruvate carboxykinase [GTP], mitochondrial; phosphoenolpyruvate carboxykinase [GTP], mitochondrial; PEP carboxykinase; phosphopyruvate carboxylase
UniProt Protein Name	Phosphoenolpyruvate carboxykinase [GTP], mitochondrial
UniProt Gene Name	**PCK2**
UniProt Synonym Gene Names	PEPCK2; PEPCK-M
UniProt Entry Name	PCKGM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/pck2-antibody-clone-jb52-39-western-blot-immunocytochemistry-immunofluorescence-immunohistochemistry-flow-cytometry-elisa/30447