

Product datasheet

Anti-PCK2 antibody [EPR14224] - BSA and Azide free
ab236129

Recombinant RabMAb

3 Images

Overview

Product name	Anti-PCK2 antibody [EPR14224] - BSA and Azide free
Description	Rabbit monoclonal [EPR14224] to PCK2 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF, Flow Cyt, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human PCK2 aa 550 to the C-terminus. The exact sequence is proprietary. Database link: Q16822
Positive control	IHC-P: Human liver tissue.
General notes	Ab236129 is the carrier-free version of ab187145 . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes. Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency. Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. ab236129 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. <i>Maxpar® is a trademark of Fluidigm Canada Inc.</i> Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents . This product is a recombinant rabbit monoclonal antibody .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

Storage buffer	Constituent: PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14224
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab236129** in the following tested applications.

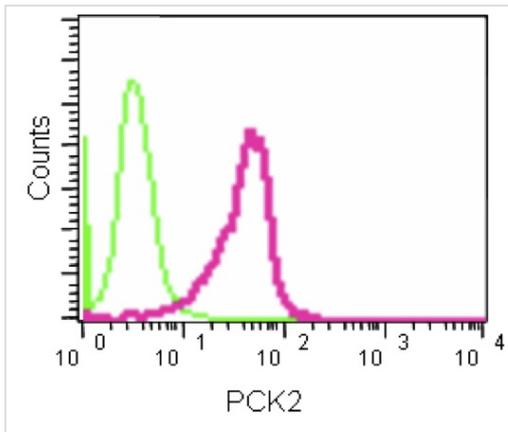
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		Use at an assay dependent concentration. Detects a band of approximately 71 kDa (predicted molecular weight: 71 kDa).

Target

Function	Catalyzes the conversion of oxaloacetate (OAA) to phosphoenolpyruvate (PEP), the rate-limiting step in the metabolic pathway that produces glucose from lactate and other precursors derived from the citric acid cycle.
Pathway	Carbohydrate biosynthesis; gluconeogenesis.
Involvement in disease	Defects in PCK2 are the cause of mitochondrial phosphoenolpyruvate carboxykinase deficiency (M-PEPCKD) [MIM:261650]. A metabolic disorder resulting from impaired gluconeogenesis. It is a rare disease with less than 10 cases reported in the literature. Clinical characteristics include hypotonia, hepatomegaly, failure to thrive, lactic acidosis and hypoglycemia. Autopsy reveals fatty infiltration of both the liver and kidneys. The disorder is transmitted as an autosomal recessive trait.
Sequence similarities	Belongs to the phosphoenolpyruvate carboxykinase [GTP] family.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Mitochondrion.

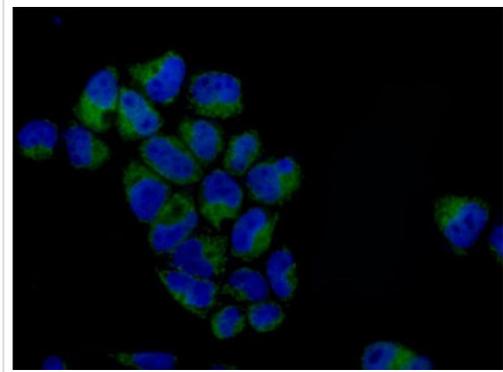
Images



Flow Cytometry - Anti-PCK2 antibody [EPR14224] - BSA and Azide free (ab236129)

Flow cytometry analysis of PCK2 expression in 2% paraformaldehyde-fixed HeLa cells using [ab187145](#) at 1/50 dilution (red) and a rabbit IgG as negative control (green). A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody.

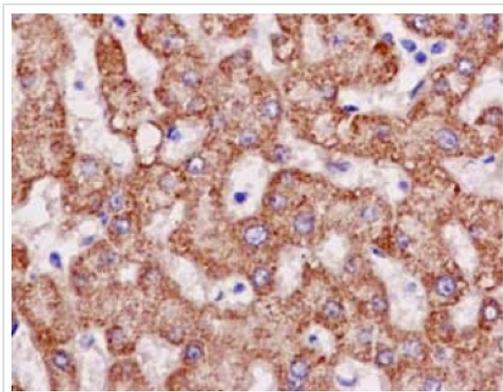
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab187145](#)).



Immunocytochemistry/ Immunofluorescence - Anti-PCK2 antibody [EPR14224] - BSA and Azide free (ab236129)

Immunofluorescence analysis of 4% paraformaldehyde-fixed HeLa cells, labeling PCK2 (green) with [ab187145](#) at 1/500 dilution. Alexa Fluor®488-conjugated goat anti-rabbit IgG was used as a secondary antibody at 1/200 dilution. Nuclei were counterstained with DAPI (blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab187145](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCK2 antibody [EPR14224] - BSA and Azide free (ab236129)

Immunohistochemical analysis of paraffin-embedded Human liver tissue, labeling PCK2 with [ab187145](#) at 1/500 dilution. Detected using HRP Polymer for Rabbit IgG and counter-stained using hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab187145](#)).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

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