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Anti-Pyruvate Carboxylase Antibody

Catalog # AP51826

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P11498
Reactivity	Human, Mouse, Rat, Zebrafish, Pig, Chicken, Bovine, Sheep, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	129634

Additional Information

Gene ID	5091
Other Names	Pyruvate carboxylase mitochondrial; Pyruvic carboxylase; PCB
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Pyruvate Carboxylase. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

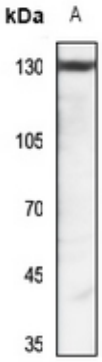
Name	PC (HGNC:8636)
Function	Pyruvate carboxylase catalyzes a 2-step reaction, involving the ATP-dependent carboxylation of the covalently attached biotin in the first step and the transfer of the carboxyl group to pyruvate in the second. Catalyzes in a tissue specific manner, the initial reactions of glucose (liver, kidney) and lipid (adipose tissue, liver, brain) synthesis from pyruvate.
Cellular Location	Mitochondrion matrix

References

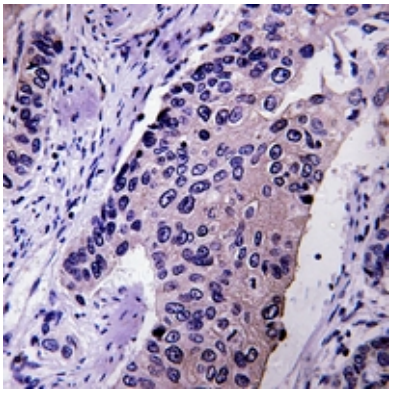
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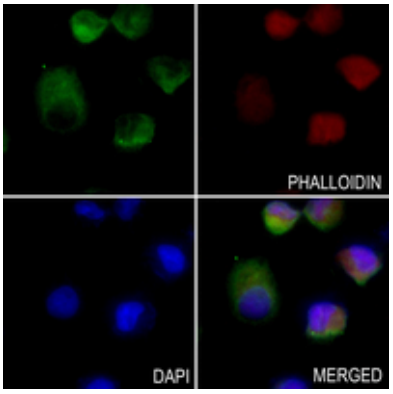
Images



Western blot analysis of Pyruvate Carboxylase expression in rat liver (A) whole cell lysates. (Predicted band size: 129 kD; Observed band size: 130 kD)



Immunohistochemical analysis of Pyruvate Carboxylase staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Pyruvate Carboxylase staining in A2780 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.