

PCB Polyclonal Antibody

| | |
|------------------------------|--|
| Catalog No : | YT3616 |
| Reactivity : | Human;Mouse;Rat |
| Applications : | WB;IHC;IF;ELISA |
| Target : | PCB |
| Fields : | >>Citrate cycle (TCA cycle);>>Pyruvate metabolism;>>Metabolic pathways;>>Carbon metabolism;>>Biosynthesis of amino acids |
| Gene Name : | PC |
| Protein Name : | Pyruvate carboxylase mitochondrial |
| Human Gene Id : | 5091 |
| Human Swiss Prot No : | P11498 |
| Mouse Swiss Prot No : | Q05920 |
| Rat Gene Id : | 25104 |
| Rat Swiss Prot No : | P52873 |
| Immunogen : | The antiserum was produced against synthesized peptide derived from human PC. AA range:357-406 |
| Specificity : | PCB Polyclonal Antibody detects endogenous levels of PCB protein. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Polyclonal, Rabbit,IgG |
| Dilution : | WB 1:500 - 1:2000. IHC: 1:100-300 ELISA: 1:20000. IF 1:100-300 Not yet tested in other applications. |
| Purification : | The antibody was affinity-purified from rabbit antiserum by affinity- |

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 120kD

Cell Pathway : Citrate cycle (TCA cycle);Pyruvate metabolism;

Background : This gene encodes pyruvate carboxylase, which requires biotin and ATP to catalyse the carboxylation of pyruvate to oxaloacetate. The active enzyme is a homotetramer arranged in a tetrahedron which is located exclusively in the mitochondrial matrix. Pyruvate carboxylase is involved in gluconeogenesis, lipogenesis, insulin secretion and synthesis of the neurotransmitter glutamate. Mutations in this gene have been associated with pyruvate carboxylase deficiency. Alternatively spliced transcript variants with different 5' UTRs, but encoding the same protein, have been found for this gene. [provided by RefSeq, Jul 2008],

Function : catalytic activity:ATP + pyruvate + HCO₃⁽⁻⁾ = ADP + phosphate + oxaloacetate.,cofactor:Binds 1 manganese ion per subunit.,cofactor:Biotin.,disease:Defects in PC are the cause of pyruvate carboxylase deficiency (PC deficiency) [MIM:266150]. PC deficiency leads to lactic acidosis, mental retardation and death. It occurs in three forms: mild or type A, severe neonatal or type B, and a very mild lacticacidemia.,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.,online information:Pyruvate carboxylase entry,pathway:Carbohydrate biosynthesis; gluconeogenesis.,similarity:Conta

Subcellular Location : Mitochondrion matrix .

Expression : Epithelium,Kidney,Liver,Lung,

Sort : 1432

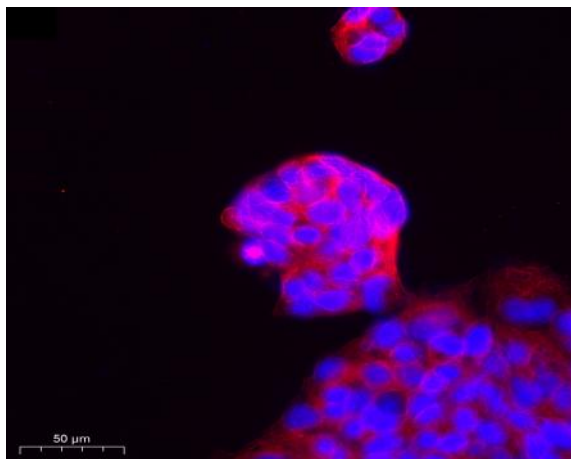
No3 : ab126707

No4 : 1

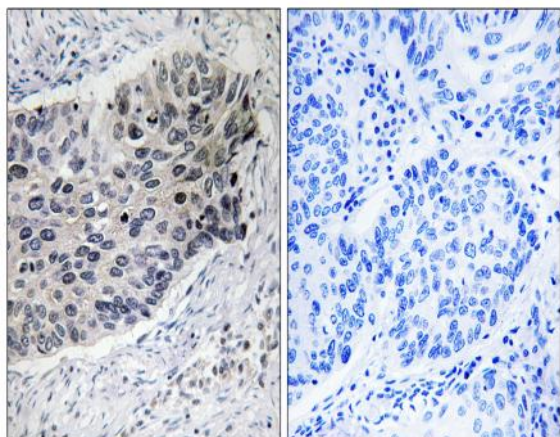
Host : Rabbit

Modifications : Unmodified

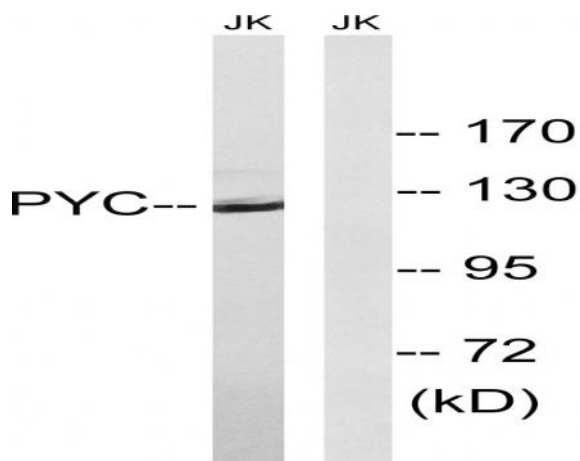
Products Images



Immunofluorescence analysis of SiHa cell. 1, primary Antibody was diluted at 1:100(4 °C overnight). 2, Goat Anti Rabbit IgG (H&L) - AFfluor 594 Secondary antibody(catalog No: RS3611) was diluted at 1:500(room temperature, 50min).



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using PC Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat cells, using PC Antibody. The lane on the right is blocked with the synthesized peptide.

Western blot analysis of the lysates from HT-29 cells using PC antibody.

