

KPYR Polyclonal Antibody

Catalog No: YN2984

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA

Target: KPYR

Fields: >>Glycolysis / Gluconeogenesis;>>Pyruvate metabolism;>>Metabolic

pathways;>>Carbon metabolism;>>Biosynthesis of amino acids;>>Insulin signaling pathway;>>Type II diabetes mellitus;>>Non-alcoholic fatty liver

disease;>>Maturity onset diabetes of the young

Gene Name: PKLR PK1 PKL

Protein Name : Pyruvate kinase isozymes R/L (EC 2.7.1.40) (Pyruvate kinase 1) (R-type/L-type

pyruvate kinase) (Red cell/liver pyruvate kinase)

Human Gene Id: 5313

Human Swiss Prot P30613

No:

Mouse Swiss Prot P53657

No:

Rat Swiss Prot No: P12928

Immunogen: Synthesized peptide derived from part region of human protein at AA range:

510-550

Specificity: KPYR Polyclonal Antibody detects endogenous levels of protein.

Formulation : Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500-2000 ELISA 1:5000-20000

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: 63kD

Cell Pathway: Glycolysis / Gluconeogenesis; Purine metabolism; Pyruvate

metabolism;Insulin Receptor;Type II diabetes mellitus;Maturity onset diabetes of

the young;

Background: The protein encoded by this gene is a pyruvate kinase that catalyzes the

transphosphorylation of phohsphoenolpyruvate into pyruvate and ATP, which is the rate-limiting step of glycolysis. Defects in this enzyme, due to gene mutations or genetic variations, are the common cause of chronic hereditary nonspherocytic hemolytic anemia (CNSHA or HNSHA). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

Function: catalytic activity:ATP + pyruvate = ADP +

phosphoenolpyruvate.,cofactor:Divalent metal

cations.,cofactor:Magnesium.,cofactor:Potassium.,disease:Defects in PKLR are a cause of chronic nonspherocytic hemolytic anemia (CNSHA) [MIM:266200]; also called hereditary nonspherocytic hemolytic anemia (HNSHA).,disease:Defects in PKLR are the cause of pyruvate kinase hyperactivity [MIM:102900]; also known

as high red cell ATP syndrome. This autosomal dominant phenotype is characterized by increase of red blood cell ATP.,miscellaneous:There are 4 isozymes of pyruvate kinase in mammals: L, R, M1 and M2. L type is major isozyme in the liver, R is found in red cells, M1 is the main form in muscle, heart and brain, and M2 is found in early fetal tissues.,online information:Pyruvate kinase entry,pathway:Carbohydrate degradation; glycolysis; pyruvate from D-

glyceraldehyde 3-phosphate: step 5/5.,similarity:

Subcellular Location:

cytosol, extracellular exosome,

Expression: Epithelium, Pancreas,

Products Images

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