

Anti-PKLR Picoband Antibody

Catalog # ABO12187

Product Information

Application	WB, IHC-P
Primary Accession	P30613
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Pyruvate kinase PKLR(PKLR) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	5313
Other Names	Pyruvate kinase PKLR, 2.7.1.40, Pyruvate kinase 1, Pyruvate kinase isozymes L/R, R-type/L-type pyruvate kinase, Red cell/liver pyruvate kinase, PKLR, PK1, PKL
Calculated MW	61830
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human
Source	Eukaryota
Protein Name	Pyruvate kinase PKLR
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PKLR (522-552aa EAIWADDVDRRVQFGIESGKLRGFLRVGDLV), different from the related mouse sequence by one amino acid, and identical to the rat sequence.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	PKLR
Synonyms	PK1, PKL
Function	Pyruvate kinase that catalyzes the conversion of phosphoenolpyruvate to pyruvate with the synthesis of ATP, and which plays a key role in glycolysis (PubMed: 11960989). Also produces the side product 2-phospholactate which can inhibit fructose-2,6- bisphosphate production (PubMed: 27294321). 2-phospholactate can be dephosphorylated by PGP which prevents the inhibition of fructose-2,6- bisphosphate production and allows glycolysis to occur (PubMed: 27294321).

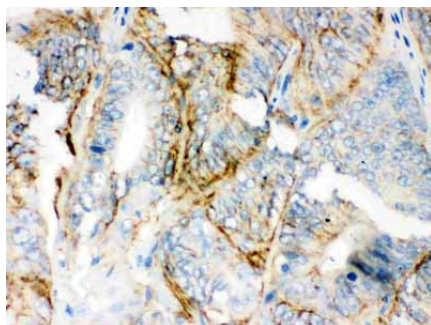
Background

Pyruvate kinase isozymes R/L is an enzyme that in humans is encoded by the PKLR gene. It is mapped to 1q21. The protein encoded by this gene is a pyruvate kinase that catalyzes the transphosphorylation of phosphoenolpyruvate 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.

Images



Anti-PKLR Picoband antibody, ABO12187, Western blotting
All lanes: Anti PKLR (ABO12187) at 0.5ug/ml
Lane 1: Rat Liver Tissue Lysate at 50ug
Lane 2: Mouse Liver Tissue Lysate at 50ug
Predicted bind size: 62KD
Observed bind size: 62KD



Anti-PKLR Picoband antibody, ABO12187, IHC(P)
IHC(P): Human Intestinal Cancer Tissue