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Anti-PKLR Antibody

Catalog # AP59931

Product Information

Application	WB, IF/IC
Primary Accession	P30613
Reactivity	Human, Mouse, Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61830

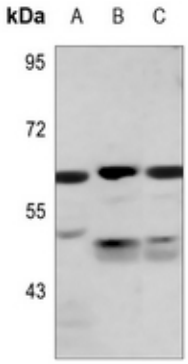
Additional Information

Gene ID	5313
Other Names	PK1; PKL; Pyruvate kinase PKLR; Pyruvate kinase 1; Pyruvate kinase isozymes L/R; R-type/L-type pyruvate kinase; Red cell/liver pyruvate kinase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human PKLR. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) 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

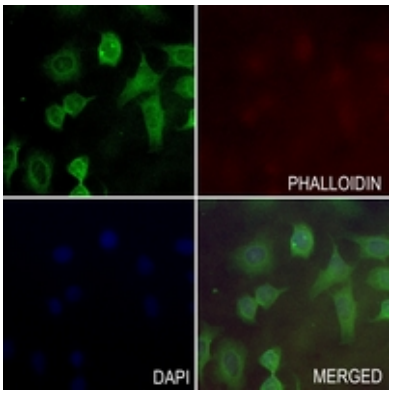
Protein Information

Name	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).

Images



Western blot analysis of PKLR expression in DLD (A), mouse muscle (B), rat muscle (C) whole cell lysates. (Predicted band size: 58; 61 kD; Observed band size: 62 kD)



Immunofluorescent analysis of PKLR staining in A549 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'.