PRODUCT INFORMATION

Catalog number ATGA0209

Clone No. AT1E3

Product type Monoclonal Antibody

UnitProt No. P30613

NCBI Accession No. NP_000289

Alternative Names Pyruvate kinase isozymes R/L, PK1, PKL, PKR, PKRL, RPK

PRODUCT SPECIFICATION

Antibody Host Mouse

Reacts With Human

Concentration 1mg/ml (determined by BCA assay)

Formulation Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen Recombinant human PKLR (47-574aa) purified from E. coli

Isotype

lgG1 kappa

Purification Note By protein-G affinity chromatography

Application

ELISA,WB,ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

For research use only. This product is not intended or approved for human, diagnostics or veterinary use. Website: www.nkmaxbio.com email: supportbio@nkmax.com



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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PKLR is a pyruvate kinase that catalyzes the transphosphorylation of phohsphoenolpyruvate into pyruvate and ATP, which is the rate-limiting step of glycolysis. The PKLR gene encodes the L- and R-type isoenzymes through alternative splicing events under the control of different promoters. The L-type isoform also exists as a tetramer and is upregulated by glucose with implications in maturity-onset diabetes of the young.

General References

Meza NW., et al. (2009). Mol Ther. 17(12):2000-9. Roy MF., et al. (2007). J Exp Med. 204(12):2949-61.

DATA

Western blot analysis (WB)



The cell lysate of 293T (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PKLR antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PKLR (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Balb-3T3 cell lysate Lane 2.: HeLa cell lysate Lane 3.: Raji cell lysate Lane 4.: K562 cell lysate Lane 5.: A549 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of PKLR in Hep3B cells. The cell was stained with ATGA0209 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ICC/IF analysis of PKLR in HeLa cells. The cell was stained with ATGA0209 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

