

Product Name: PKM2 (1W18) Rabbit Monoclonal Antibody

Catalog #: AMRe16219

For research use only.

Summary

Description Recombinant rabbit monoclonal antibody

Host Rabbit

Application WB,IHC,IF-P

Reactivity Human,Mouse,Rat
Conjugation Unconjugated
Modification Unmodified

Isotype IgG

Clonality Monoclonal
Form Liquid

Concentration 0.36mg/ml. The concentration of this product may be batch-dependent.

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% New type preservative

Buffer N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw

cycle.

Purification Affinity purification

Application

Dilution Ratio WB 1:1000-1:5000,IHC 1:100-1:200,IF-P 1:100-1:200

Molecular Weight 58kDa

Antigen Information

Gene Name PKM

CTHBP; Cytosolic thyroid hormone binding protein; KPYM; OIP 3; Oip3; OPA Alternative Names

interacting protein 3; p58; PK Muscle type; muscle type; PK2; Pk3; PKM;

 Gene ID
 5315.0

 SwissProt ID
 P14618

Immunogen A synthetic peptide of human PKM

Background

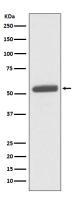


Pyruvate kinase is a glycolytic enzyme that catalyses the conversion of phosphoenolpyruvate to pyruvate. PKM2 is shown to be essential for aerobic glycolysis in tumors, known as the Warburg effect. Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP (PubMed:15996096, PubMed:1854723). The ratio between the highly active tetrameric form and nearly inactive dimeric form determines whether glucose carbons are channeled to biosynthetic processes or used for glycolytic ATP production (PubMed:15996096, PubMed:1854723). The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival (PubMed:15996096, PubMed:1854723). In addition to its role in glycolysis, also regulates transcription (PubMed:18191611, PubMed:21620138). Stimulates POU5F1-mediated transcriptional activation (PubMed:18191611). Promotes in a STAT1-dependent manner, the expression of the immune checkpoint protein CD274 in ARNTL/BMAL1-deficient macrophages (By similarity). Also acts as a translation regulator for a subset of mRNAs, independently of its pyruvate kinase activity: associates with subpools of endoplasmic reticulum-associated ribosomes, binds directly to the mRNAs translated at the endoplasmic reticulum and promotes translation of these endoplasmic reticulum-destined mRNAs (By similarity). Plays a general role in caspase independent cell death of tumor cells (PubMed:17308100).

Research Area

Signal Transduction

Image Data



Western blot analysis of PKM2 expression in HeLa cell lysate.

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