



PKM2 Rabbit mAb

Catalog No	YP-rAb-18093
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	PKM
Protein Name	Pyruvate kinase PKM
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1000; WB 1:1000-5000; IF 1:200-1000; ELISA 1:5000-20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	PKM ; OIP3 ; PK2 ; PK3 ; PKM2 ; Pyruvate kinase isozymes M1/M2 ; Cytosolic thyroid hormone-binding protein ; CTHBP ; Opa-interacting protein 3 ; OIP-3 ; Pyruvate kinase 2/3 ; Pyruvate kinase muscle isozyme ; Thyroid hormone-binding protein 1 ; THBP1 ; Tu
Observed Band	57kD
Calculated Molecular Weight	57kD
Cell Pathway	Cytoplasm
Tissue Specificity	[Isoform M2]: Specifically expressed in proliferating cells, such as embryonic stem cells, embryonic carcinoma cells, as well as cancer cells. ; [Isoform M1]: Expressed in adult tissues (PubMed:18337823). Not expressed in tumor cells (PubMed:18337823).
Function	Catalytic activity:ATP + pyruvate = ADP + phosphoenolpyruvate.,cofactor:Divalent metal cations.,cofactor:Magnesium.,cofactor:Potassium.,enzyme regulation:Isoform M2 is allosterically activated by D-fructose 1,6-biphosphate (FBP). Inhibited by oxalate and 3,3',5-triiodo-L-thyronine (T3)..Function:Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating 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 as well as in most cancer cells.,online information:Pyruvate kinase entry,pathway:Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 5/5.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the pyruvate kinase family.,subunit:Monomer and homotetramer. Exists as a monomer in the absence of FBP, and reversibly associates to form a homotetramer in the presence of FBP. The monomeric form binds T3. Tetramer formation induces pyruvate kinase activity. Interacts with HERC1.,

Background

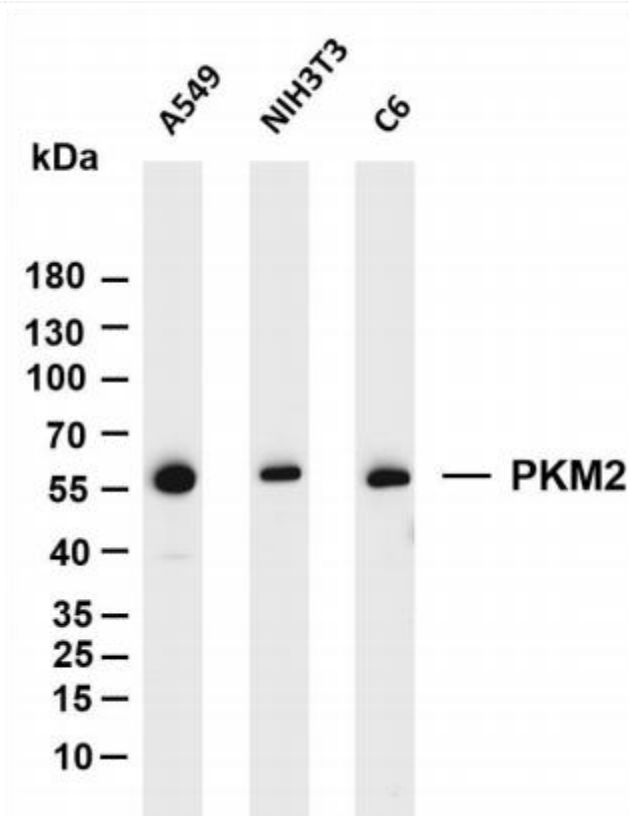
This gene encodes a protein involved in glycolysis. The encoded protein is a pyruvate kinase that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate to ADP, generating ATP and pyruvate. This protein has been shown to interact with thyroid hormone and may mediate cellular metabolic effects induced by thyroid hormones. This protein has been found to bind Opa protein, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells, suggesting a role of this protein in bacterial pathogenesis. Several alternatively spliced transcript variants encoding a few distinct isoforms have been reported. [provided by RefSeq, May 2011],

matters needing attention

Avoid repeated freezing and thawing!

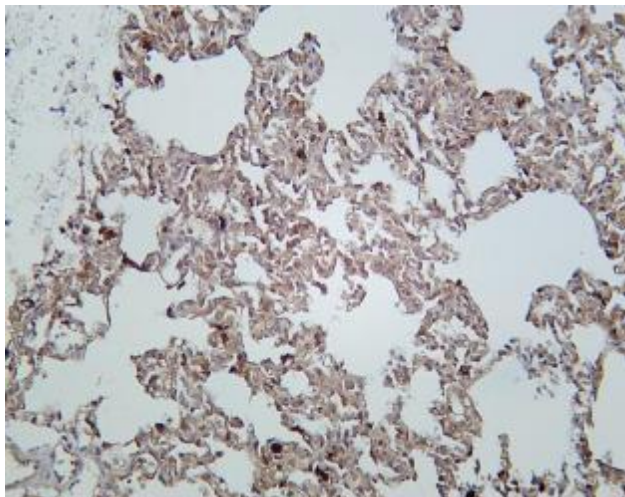
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

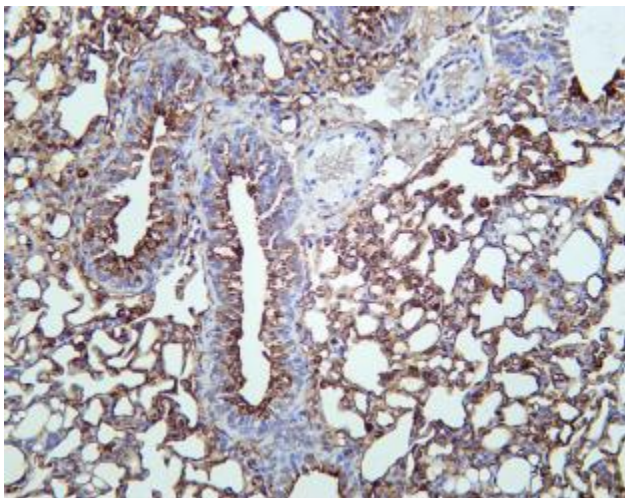


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PKM antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A549 Lane 2: NIH3T3 Lane 3: C6 Predicted band size: 57kDa Observed band size: 57kDa

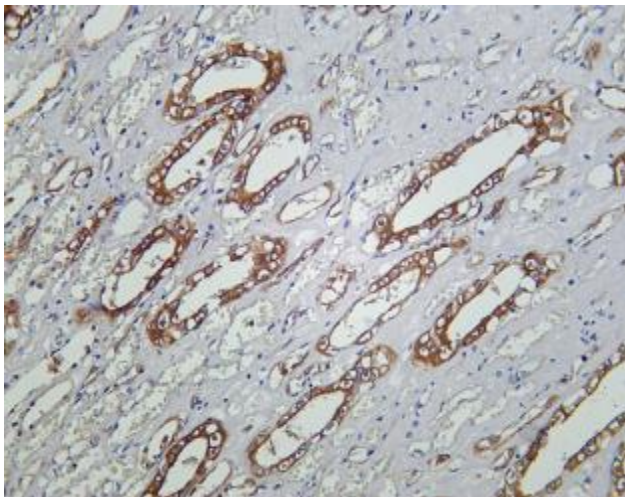




Rat lung was stained with Anti-PKM rabbit antibody

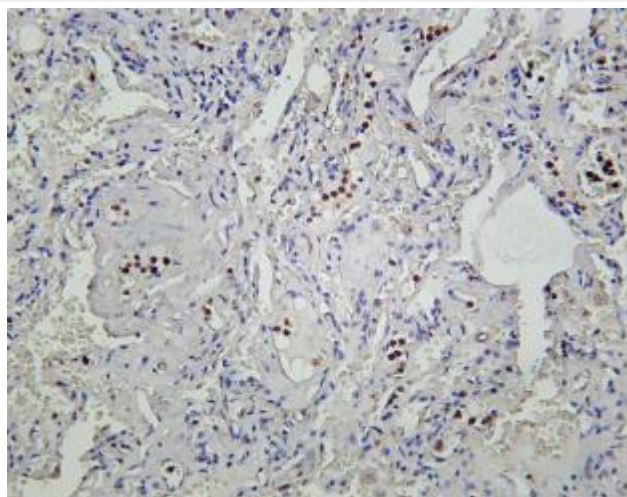


Mouse lung was stained with Anti-PKM rabbit antibody



Human kidney was stained with Anti-PKM rabbit antibody





Human lung was stained with Anti-PKM rabbit antibody

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| 宏基因组、转录组、基因组、蛋白组、代谢组测序



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