



[Go to Product page](#)

Datasheet for ABIN724910

## anti-PKM2 antibody (AA 255-350)

2 Images

2 Publications

### Overview

Quantity:	100 µL
Target:	PKM2
Binding Specificity:	AA 255-350
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKM2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse Pyruvate kinase PKM
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig,Horse,Rabbit
Purification:	Purified by Protein A.

### Target Details

Target:	PKM2
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## Target Details

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Alternative Name: [PKM2 \(PKM2 Products\)](#)

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Background: Synonyms: PK3, TCB, OIP3, PKM2, CTHBP, THBP1, HEL-S-3, Pyruvate kinase PKM, Cytosolic thyroid hormone-binding protein, Opa-interacting protein 3, OIP-3, Pyruvate kinase 2/3, Pyruvate kinase muscle isozyme, Thyroid hormone-binding protein 1, Tumor M2-PK, p58, PKM, PK2, Pyruvate kinase PKLR, Pyruvate kinase 1, R-type/L-type pyruvate kinase, Red cell/liver pyruvate kinase.

Background: Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP. Stimulates POU5F1-mediated transcriptional activation. Plays a general role in caspase independent cell death of tumor cells. 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. The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival.

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Gene ID: 5315, 5313

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UniProt: [P14618](#), [P30613](#)

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Pathways: [Warburg Effect](#)

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## Application Details

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Application Notes: WB 1:300-5000  
ELISA 1:500-1000  
FCM 1:20-100  
IHC-P 1:200-400  
IHC-F 1:100-500  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200  
ICC 1:100-500

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 µg/µL

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## Handling

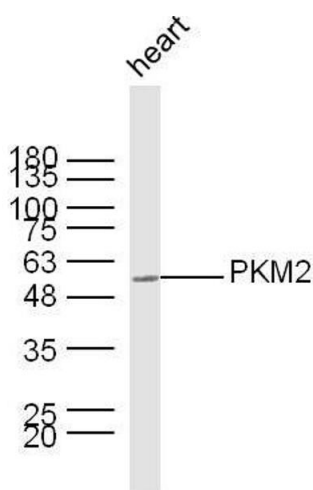
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

## Publications

Product cited in: Li, He, Zhang, Miao: "Differential proteome and gene expression reveal response to carbon ion irradiation in pubertal mice testes." in: **Toxicology letters**, Vol. 225, Issue 3, pp. 433-44, (2014) ([PubMed](#)).

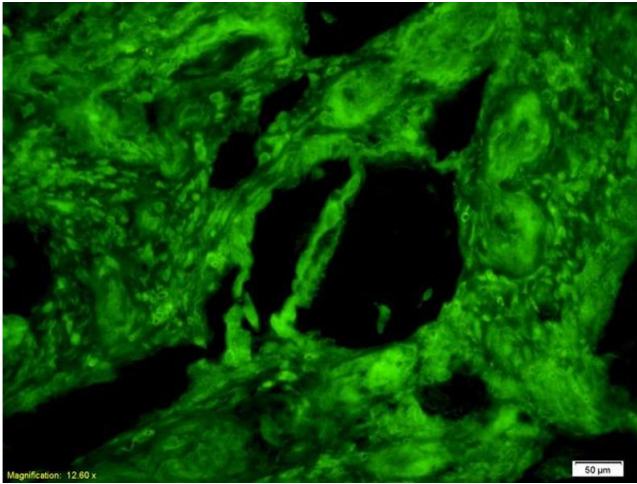
Yao, Zhuang, Du, Cheng, Yang, Guan, Hu, Zhu, Christine, Shi, Hua: "Role of Fas-associated death domain-containing protein (FADD) phosphorylation in regulating glucose homeostasis: from proteomic discovery to physiological validation." in: **Molecular & cellular proteomics : MCP**, Vol. 12, Issue 10, pp. 2689-700, (2013) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** Mouse heart lysates probed with PKM2 Polyclonal Antibody, unconjugated at 1:300 overnight at 4°C followed by a conjugated secondary antibody at 1:10000 for 60 minutes at 37°C.



### Immunofluorescence

**Image 2.** Formalin-fixed and paraffin-embedded human rectal carcinoma with Anti-M2-PK/PKM2 Polyclonal Antibody, Unconjugated 1:200, overnight at 4°C, The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C.