

Mouse anti-Human PKM2 Monoclonal Antibody | anti-PKM2 antibody

PKM2 Antibody

CATALOG # AAA300720	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Western Blot
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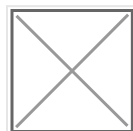
PRODUCT SYNONYMS

PKM2; Monoclonal Antibody; PKM2 Antibody; PKM; PK3; OIP3; PK2; anti-PKM2 antibody

PRODUCT SPECIFICATIONS

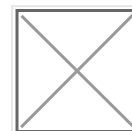
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Clone Number	XD2014M001S1
Specificity	The antibody detects endogenous levels of total PKM2 protein
Form/Format	1.0 mg/mL in phosphate buffer without Mg ²⁺ /Ca ²⁺ , pH7.4, 150mM NaCl and 50% glycerol
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	605
Applicable Applications for anti-PKM2 antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant human PKM2 protein
Target Name	PKM2
Preparation and Storage	Store at -20 degree C

IMAGES



IP (Immunoprecipitation)

Immunoprecipitation analysis of U87 cell lysates using PKM2 antibody. IP:PKM2 Monoclonal Antibody. WB:PKM2 Polyclonal Antibody #21578.



WB (Western Blot)

Western blot analysis of extracts from U87 cells using PKM2 Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PKM2 antibody	Pyruvate kinase (PK) regulates the final rate-limiting step of glycolysis in the production of pyruvate and adenosine triphosphate (ATP). Alternate splicing of PKM pre-mRNA leads to PKM2 generation by the inclusion of exon 10 and the exclusion of exon 9, which is specific for PKM1. Besides its cytosolic roles in glycolysis, PKM2, which is upregulated by growth factor receptor activation 1, is phosphorylated at S37 by extracellular signal-regulated kinase (ERK) 2. This phosphorylation leads to the cis-trans isomerization of PKM2 by the peptidyl-prolineisomerase protein interacting with never in mitosis A 1 (PIN1), exposure of the nuclear localization signal (NLS) of PKM2, and subsequent binding of importin ? 5 for nuclear translocation 2. In the nucleus, PKM2 binds to phosphorylated Y333 of b-catenin, which is essential for b-catenin transactivation 3, and interacts with and phosphorylates histone H3 at T11, leading to H3-K9 acetylation and transcription of genes such as MYC and CCND14. c-Myc expression results in the upregulation of GLUT1, lactate dehydrogenase A (LDHA), and, in a positive feedback loop, PTB-dependent PKM2, which subsequently enhances the Warburg effect 2. Cyclin D1 expression, in turn, promotes G1-S phase transition 3, 4.
Product Categories/Family for anti-PKM2 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	332164775
NCBI GeneID	5315
NCBI Accession #	NP_001193725.1
NCBI GenBank Nucleotide #	NM_001206796.1
UniProt Accession #	P14618; P14786; Q53GK4; Q96E76; Q9BWB5; Q9UCV6; Q9UPF2; A6NFK3; B2R5N8; B3KRY0; B4DFX8; B4DUU6
Molecular Weight	56,273 Da
NCBI Official Full Name	pyruvate kinase PKM isoform c
NCBI Official Synonym Full Names	pyruvate kinase, muscle
NCBI Official Symbol	PKM
NCBI Official Synonym Symbols	PK3; TCB; OIP3; PKM2; CTHBP; THBP1; HEL-S-30
NCBI Protein Information	pyruvate kinase PKM
UniProt Protein Name	Pyruvate kinase PKM
UniProt Gene Name	PKM
UniProt Synonym Gene Names	OIP3; PK2; PK3; PKM2; CTHBP; OIP-3; THBP1
UniProt Entry Name	KPYM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/pkm2-antibody-clone-xd2014m001s1-immunoprecipitation-western-blot-elisa/300720>