

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

PKM2 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48144	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

PKM2; Monoclonal Antibody; PKM2 antibody; pyruvate kinase muscle isoform M2; CTHBP; THBP1; p58; M2-PK; Tumor M2-PK; PK2; PK3; PKM; pyruvate kinase; muscle isoform M2 OIP3; TCB; OPA interacting protein 3; Cytosolic thyroid hormone binding protein; Pyruvate kinase 2/3; Pyruvate kinase isozymes M1/M2; Pyruvate kinase muscle; Thyroid hormone binding protein cytosolic; Tumour Type M2 Pyruvate Kinase; Tumor Type M2 Pyruvate Kinase; anti-PKM2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	AT1B10
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	531
Applicable Applications for anti-PKM2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human PKM2 (1-531aa) purified from E Coli.
Clone Note	Anti-human PKM2 mAb, clone AT1B10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PKM2 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of PKM2 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PKM2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green). ICC/IF analysis of PKM2 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PKM2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

Fig.1: The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PKM2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1 : HeLa cell lysate Lane 2 : Jurkat cell lysate Lane 3 : MCF7 cell lysate Lane 4 : A549 cell lysate Lane 5 : 293T cell lysate Fig 2: The Recombinant human PKM2 (50ng) protein was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PKM2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-PKM2 antibody	PKM2 (pyruvate kinase M2), its association with phospho-tyrosine (pTyr) motifs, enables cells to use predominantly aerobic glycolysis instead of oxidative phosphorylation. Also PKM2 suggest that this change benefits cancer cells by enabling them to redirect glycolytic metabolites away from oxidation and energy production and, instead, toward anabolic processes and biosynthesis. PKM2-mediated generation of the aerobic glycolytic phenotype, although wasteful in terms of glucose consumption and waste generation, could provide a variety of advantages for cancerous cells. In addition nuclear translocation of the tumor marker pyruvate kinase M2 induces programmed cell death.
Product Categories/Family for anti-PKM2 antibody	Signal Transduction
References	Ferguson E.C., et al. (2008) Trends Biochem Sci 33 (8): 359-362; Christofk H.R., et al. (2008) Nature 452 (7184):181-186; Shimada N., et al. (2008) Genes Cells 13 (3): 245-254

NCBI AND UNIPROT INFORMATION

NCBI GI #	33286418
NCBI GeneID	5315
NCBI Accession #	NP_002645
NCBI GenBank Nucleotide #	NM_002654.5
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 a
NCBI Official Synonym Full Names	pyruvate kinase M1/2
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

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-at1b10-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48144>