Datasheet for ABIN7603151

anti-PKM antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	PKM
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PKM antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-PKM2 Antibody Picoband® (monoclonal, 11I4C3)
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human PKM2, different from the related mouse sequence by five amino acids, and from the related rat sequence by four amino acids.
Clone:	11I4C3
Isotype:	IgG2b
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PKM2 Antibody Picoband® (monoclonal, 11I4C3) (ABIN7603151). Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong

Product Details

	signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	PKM
Alternative Name:	PKM (PKM Products)
Background:	Synonyms: Bcl-2 homologous antagonist/killer, Apoptosis regulator BAK, Bcl-2-like protein 7, Bcl2-L-7, BAK1, BAK, BCL2L7, CDN1 Tissue Specificity: Expressed in a wide variety of tissues, with highest levels in the heart and skeletal muscle. Background: PKM (Pyruvate Kinase, Muscle), also known as PK3 or PKM2, is an enzyme that in humans is encoded by the PKM gene. The activity of pyruvate kinase subtype M2 is increased by fructose 1, 6-bisphosphate (Fru-1, 6-P2). By in situ hybridization, Popescu and Cheng (1990) mapped the THBP1 gene to 15q24-q25. Ashizawa et al. (1991) manipulated the intracellular Fru-1, 6-P2 concentration in several mammalian cell lines, including human, by varying the glucose concentration in the media. Using a novel proteomic screen for phosphotyrosine-binding proteins, Christofk et al. (2008) observed that PKM2 binds ly and selectively to tyrosine-phosphorylated peptides.
Molecular Weight:	60 kDa
Gene ID:	5315
UniProt:	P14618
Pathways:	Warburg Effect

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human 1. Ashizawa, K., Willingham, M. C., Liang, C.-M., Cheng, S. In vivo regulation of monomer-tetramer conversion of pyruvate kinase subtype M-2 by glucose is mediated via fructose 1, 6-bisphosphate. 2. J. Biol. Chem. 266: 16842-16846, 1991. 2. Christofk, H. R., Vander Heiden, M.

Application Details

	G., Wu, N., Asara, J. M., Cantley, L. C. Pyruvate kinase M2 is a phosphotyrosine-binding protein. 3. Nature 452: 181-186, 2008. 3. Popescu, N. C., Cheng, S. Y. Chromosomal localization of the gene for a human cytosolic thyroid hormone binding protein homologous to the subunit of pyruvate kinase, subtype M(2). Somat. Cell Molec. Genet. 16: 593-598, 1990.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.