

Datasheet for ABIN5706831
anti-PKM antibody



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1 Image

Overview

Quantity:	100 µg
Target:	PKM
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKM antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Purpose:	PKM2 Antibody
Immunogen:	Immunogen: Affinity purified Anti-PKM2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide near the internal portion of human PKM2 protein. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	Anti-PKM2 is directed against human PKM2 at an internal position.
Characteristics:	Synonyms: rabbit anti-PKM2 antibody, PKM 2, PKM-2, Pyruvate kinase PKM, Cytosolic thyroid hormone-binding protein, CTHBP, Opa-interacting protein 3, Pyruvate kinase 2/3, Pyruvate kinase muscle isozyme, Thyroid hormone-binding protein 1, THBP1, Tumor M2-PK, p58, OIP3, OIP-3, PK2, PK3
Purification:	This product is an affinity purified antibody produced by immunoaffinity chromatography using

Product Details

peptide coupled to agarose beads.

Sterility: Sterile filtered

Target Details

Target: PKM

Alternative Name: PKM ([PKM Products](#))

Background: Background: Anti-PKM2 Antibody was designed, produced, and validated as part of the Joy Cappel Young Investigator Award (JCYIA). Pyruvate kinase has been shown to be expressed in tumor, embryonic and normal proliferating cells in varying levels. Studies show that when PKM2 is secreted it can induce EGFR phosphorylation which stimulates the EGFR downstream pathway. Previously PKM has been shown to be critical for aerobic glycolysis. Four isoforms of PKM play alternative roles within the system and post-translational modifications along these isoforms induce multiple pathways making this Anti-PKM2 antibody ideal for investigators involved in cancer research and post-translational modifications.

Gene ID: 5315

NCBI Accession: [NP_001193725](#)

UniProt: [P14618](#)

Pathways: [Warburg Effect](#)

Application Details

Application Notes: Application Note: This affinity purified antibody has been tested for use in western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band 56-58 kDa in size corresponding to PKM2 by western blotting in the appropriate cell lysate or extract. Western Blot Dilution: 1 µg/mL ELISA Dilution: 5 µg/mL

Restrictions: For Research Use only

Handling

Format: Liquid

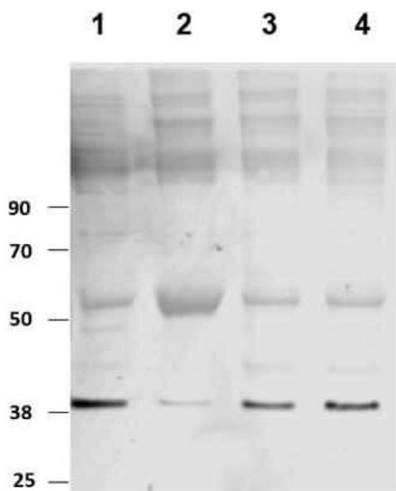
Concentration: 1.0 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Handling

	Stabilizer: None
	Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western Blot of Rabbit Anti-PKM2 antibody. Lane 1 and 2: iPSC lysate. Lane 3 and 4: myeloid lysate (iPSC derived). Load: 100 µg per lane. Primary antibody: PKM2 antibody at 1:1000 for overnight at 4 °C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5 % Odyssey blocking buffer for 120 min at RT. Predicted/Observed size: 57 kda for PKM2. Other band(s): PKM2 splice variants and isoforms as PKM2 is a highly modified protein.