Datasheet for ABIN5532984

anti-Pyruvate Kinase antibody (C-Term)

3 Images

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Overview

Quantity:	200 µL
Target:	Pyruvate Kinase (PK)
Binding Specificity:	AA 476-505, C-Term
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Pyruvate Kinase antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This Pyruvate Kinase (PKM2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 476-505 amino acids from the C-terminal region of human Pyruvate Kinase (PKM2).
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis

Target Details

Target:	Pyruvate Kinase (PK)
Alternative Name:	Pyruvate Kinase (PK Products)

Target Details

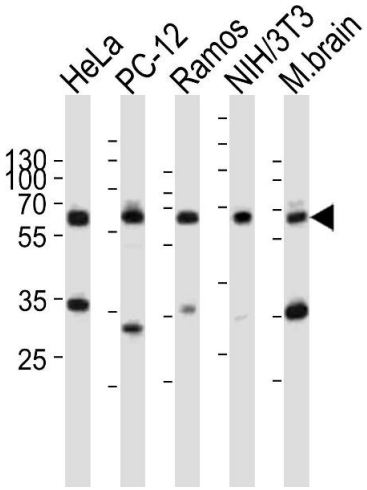
Background:	There are 4 isozymes of pyruvate kinase in mammals: L, R, M1 and M2. PKM2 is a pyruvate kinase that catalyzes the production of phosphoenolpyruvate from pyruvate and ATP. This protein has been shown to interact with thyroid hormone, and thus may mediate cellular metabolic effects induced by thyroid hormones. This protein has been found to bind Opa protein, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells, suggesting a role of this protein in bacterial pathogenesis.
Molecular Weight:	58 kDa
Gene ID:	5315
UniProt:	P14618

Application Details

Application Notes:	For WB starting dilution is: 1:1000 For IF starting dilution is: 1:200 For IHC-P starting dilution is: 1:50~1:100
Restrictions:	For Research Use only

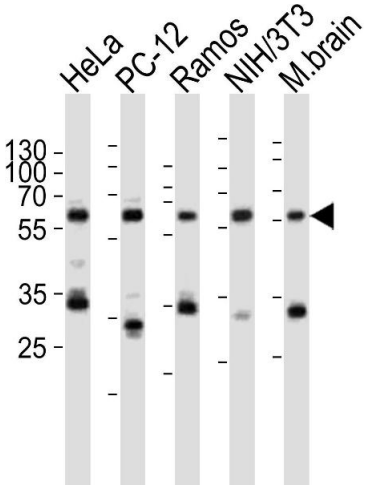
Handling

Format:	Liquid
Buffer:	Supplied in PBS with 0.09 % (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 at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



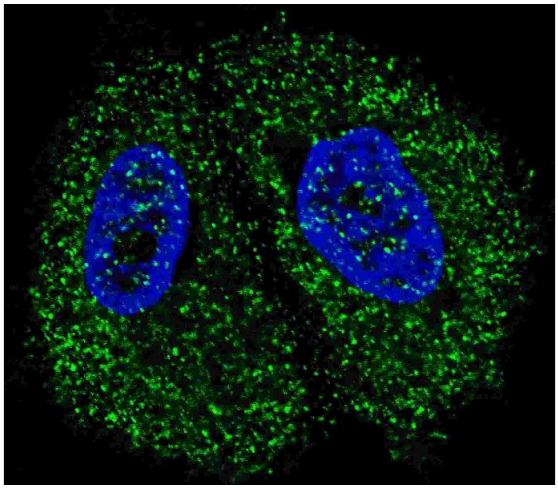
Western Blotting

Image 1. Western blot analysis of lysates from HeLa, rat PC-12, Ramos, mouse NIH/3T3 cell line, mouse brain tissue lysate(from left to right), using PKM2-N491 at 1:1000 at each lane.



Western Blotting

Image 2. Western blot analysis of lysates from HeLa, rat PC-12, Ramos, mouse NIH/3T3 cell line, mouse brain tissue lysate(from left to right), using PKM2-N491 at 1:1000 at each lane.



Immunofluorescence

Image 3. Fluorescent confocal image of MCF7 cells stained with Pyruvate Kinase (PKM2) antibody. MCF7 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with Pyruvate Kinase (PKM2) primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). Note the highly specific localization of the Pyruvate Kinase (PKM2) mainly to the cytoplasm, supported by Human Protein Atlas Data (http://www.proteinatlas.org/ENSG00000067225).