

## Basic Information

Product Name	Anti-PKM2/PKM Antibody	
Gene Name	PKM	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF	
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
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.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	58 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied.

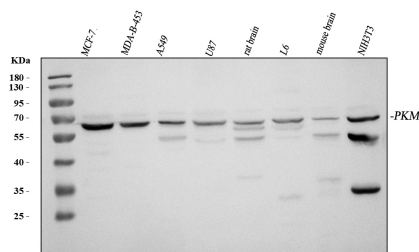
## Background Information

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 directly and selectively to tyrosine-phosphorylated peptides.

## Reference

Anti-PKM2/PKM Antibody被引用在1文献中。

## Selected Validation Data



Western blot analysis of PKM2/PKM using anti-PKM2/PKM antibody (PB9379). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: MCF-7 whole cell lysates,

Lane 2: MDA-B-453 whole cell lysates,

Lane 3: A549 whole cell lysates,

Lane 4: U87 whole cell lysates,

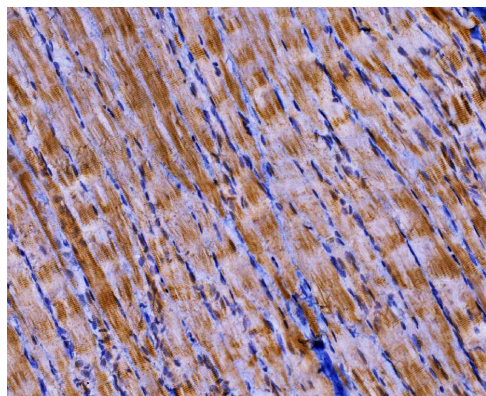
Lane 5: rat brain tissue lysates,

Lane 6: L6 whole cell lysates,

Lane 7: mouse brain tissue lysates,

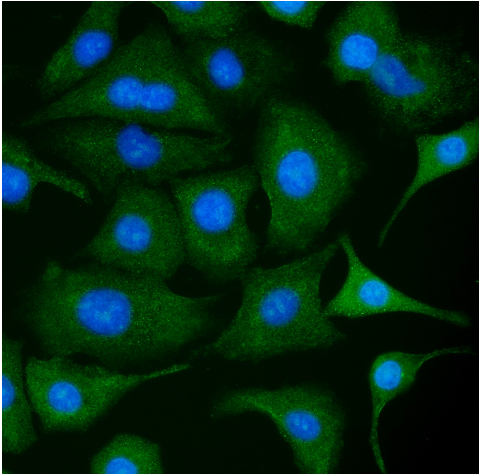
Lane 8: NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PKM2/PKM antigen affinity purified polyclonal antibody (PB9379) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PKM2/PKM at approximately 58 kDa. The expected band size for PKM2/PKM is at 58 kDa.



IHC analysis of PKM2/PKM using anti-PKM2/PKM antibody (PB9379).

PKM2/PKM was detected in a paraffin-embedded section of rat skeletal muscle tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-PKM2/PKM Antibody (PB9379) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of PKM2/PKM using anti-PKM2/PKM antibody (PB9379).

PKM2/PKM was detected in an immunocytochemical section of A549 cells.

The section was incubated with rabbit anti-PKM2/PKM Antibody (PB9379) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).