

PKM2-specific Rabbit mAb

Catalog No.: A20991 **Recombinant** **12 Publications**

Basic Information

Observed MW

58 kDa

Calculated MW

58 kDa

Category

Primary antibody

Applications

WB,IF/ICC,IF-F,IF-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC50919

Background

This gene encodes a protein involved in glycolysis. The encoded protein is a pyruvate kinase that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate to ADP, generating ATP and pyruvate. This protein has been shown to interact with thyroid hormone and 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. Several alternatively spliced transcript variants encoding a few distinct isoforms have been reported.

Recommended Dilutions

WB 1:1000 - 1:6000

IF/ICC 1:200 - 1:800

IF-F 1:100 - 1:400

IF-P 1:100 - 1:400

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

5315

Swiss Prot

P14618

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.


Synonyms

PK3; TCB; p58; OIP3; PKM2; CTHBP; THBP1; HEL-S-30; PKM2-specific

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

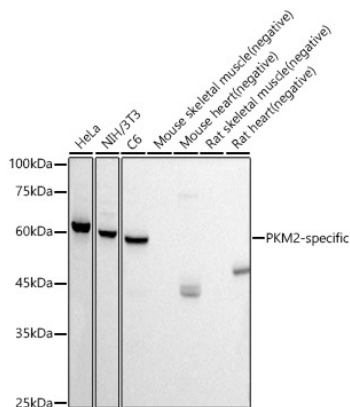
Affinity purification

Storage

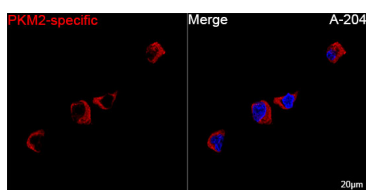
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

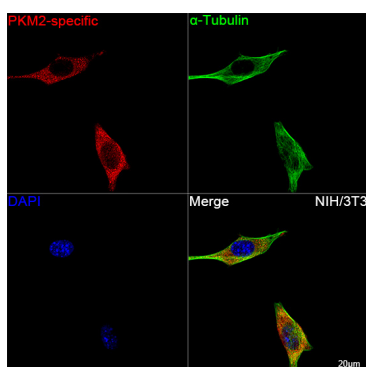
Validation Data



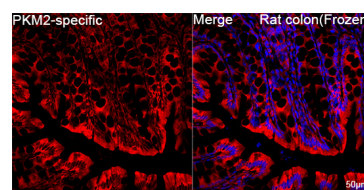
Western blot analysis of various lysates, using PKM2-specific Rabbit mAb (A20991) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Negative control (NC): Mouse skeletal muscle, Rat skeletal muscle, Mouse heart, Rat heart. Exposure time: 3s.



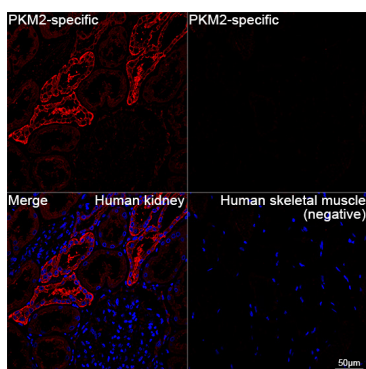
Confocal imaging of A-204 cells using PKM2-specific Rabbit mAb (A20991, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of NIH/3T3 cells using PKM2-specific Rabbit mAb (A20991, dilution 1:400) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of frozen sections of Rat colon tissue using PKM2-specific Rabbit mAb (A20991, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Human kidney tissue and Human skeletal muscle tissue (negative) using PKM2-specific Rabbit mAb (A20991, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.