

Rabbit Pyruvate Kinase (PKM2) Polyclonal Antibody | anti-PKM antibody

Pyruvate Kinase (PKM2) Antibody (C-term)

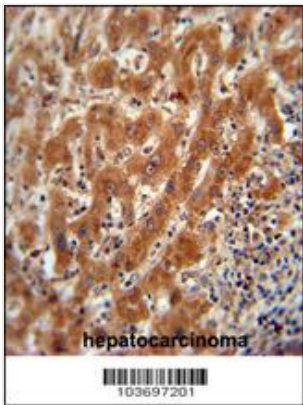
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286433	Rabbit	Human, mouse, rat, monkey	Immunohistochemistry, Immunofluorescence, ELISA, Western Blot

PRODUCT SYNONYMS

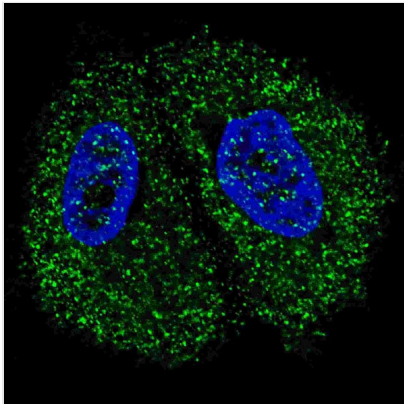
Pyruvate Kinase (PKM2); Polyclonal Antibody; Pyruvate Kinase (PKM2) Antibody (C-term); Pyruvate kinase PKM; Cytosolic thyroid hormone-binding protein; CTHBP; Opa-interacting protein 3; OIP-3; Pyruvate kinase 2/3; Pyruvate kinase muscle isozyme; Thyroid hormone-binding protein 1; THBP1; Tumor M2-PK; p58; PKM; OIP3; PK2; PK3; PKM2; anti-PKM antibody

PRODUCT SPECIFICATIONS

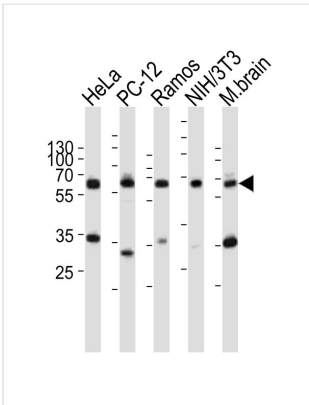
Host	Rabbit
Reactivity	Human, mouse, rat, monkey
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Pyruvate Kinase (PKM2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 476-505 amino acids from the C-terminal region of human Pyruvate Kinase (PKM2).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	476-505
Sequence Length	605
Applicable Applications for anti-PKM antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



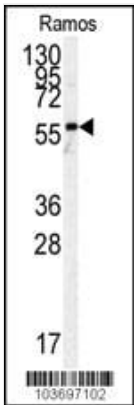
IHC (Immunohistochemistry)
Pyruvate Kinase (PKM2) Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the Pyruvate Kinase (PKM2) Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



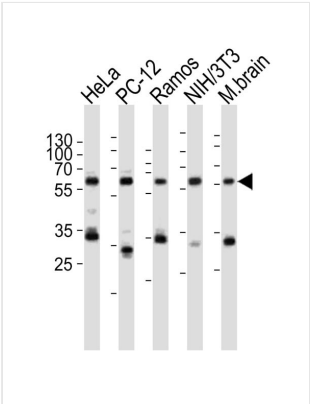
IF (Immunofluorescence)
Fluorescent confocal image of MCF7 cells stained with Pyruvate Kinase (PKM2) (C-term) antibody. MCF7 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AAA286433 Pyruvate Kinase (PKM2) (C-term) primary antibody (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>).



WB (Western Blot)
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. AAA286433 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



WB (Western Blot)
Western blot analysis of anti-h PKM2-N491 Pab in Ramos cell line lysates (35ug/lane). hPKM2-N491(arrow) was detected using the purified Pab.



WB (Western Blot)
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. AAA286433 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-PKM antibody	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.
Product Categories/Family for anti-PKM antibody	Crown Antibodies; Cancer; Cardiovascular; Metabolism; Signal Transduction
References	References for protein: 1.Williams, J.M., et al., Mol. Microbiol. 27(1):171-186 (1998). 2.Gress, T.M., et al., Oncogene 13(8):1819-1830 (1996). 3.Kato, H., et al., Proc. Natl. Acad. Sci. U.S.A. 86(20):7861-7865 (1989). 4.Tsutsumi, H., et al., Genomics 2(1):86-89 (1988). 5.Tani, K., et al., Gene 73(2):509-516 (1988). References for MCF7 cell line: 1.Soule, HD; Vazquez J; Long A; Albert S; Brennan M. (1973). "A human cell line from a pleural effusion derived from a breast carcinoma". Journal of the National Cancer Institute 51 (5): 1409-1416. [PMID 4357757]. 2.Levenson, AS; Jordan VC. (1997). "MCF-7: the first hormone-responsive breast cancer cell line". Cancer Research 57 (15): 3071-3078. [PMID 9242427]. 3.Lacroix, M; Leclercq G. (2004). "Relevance of breast cancer cell lines as models for breast tumours: an update". Breast Research and Treatment 83 (3): 249-289.[PMID 14758095].

NCBI AND UNIPROT INFORMATION

NCBI GI #	332164775
NCBI GeneID	5315
NCBI Accession #	NP_001193725.1; NP_001193726.1; NP_001193727.1; NP_001193728.1; NP_002645.3; NP_872270.1; NP_872271.1
NCBI GenBank Nucleotide #	NM_001206796.1
UniProt Accession #	P14618; P14786; Q53GK4; Q96E76; Q9BWB5; Q9UCV6; Q9UPF2; A6NFK3; B2R5N8; B3KRY0; B4DFX8; B4DUU6
Molecular Weight	57937
NCBI Official Full Name	pyruvate kinase PKM isoform c
NCBI Official Synonym Full Names	pyruvate kinase, muscle
NCBI Official Symbol	PKM
NCBI Official Synonym Symbols	PK3; TCB; OIP3; PKM2; CTHBP; THBP1; HEL-S-30
NCBI Protein Information	pyruvate kinase PKM
UniProt Protein Name	Pyruvate kinase PKM
UniProt Gene Name	PKM
UniProt Synonym Gene Names	OIP3; PK2; PK3; PKM2; CTHBP; OIP-3; THBP1
UniProt Entry Name	KPYM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.