

Product Name: KD-Validated PKM2 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01670**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 57.9kDa

Antigen Information

Gene Name	PKM Pyruvate Kinase M1/2; THBP1; OIP3; PK3PKM2; Cytosolic Thyroid Hormone-Binding Protein; ThyroidHormone-Binding Protein 1; Pyruvate Kinase Muscle Isozyme; Threonine-Protein KinasePKM2; Tyrosine-Protein Kinase PKM2; Pyruvate Kinase, Muscle; Pyruvate Kinase PKM;
Alternative Names	Pyruvate Kinase 2/3; Tumor M2-PK; EC 2.7.1.40 48; CTHBP; P58; Thyroid Hormone-Binding Protein, Cytosolic; Epididymis Secretory Protein Li; Pyruvate Kinase Isozymes M1/M2; OPA-Interacting Protein 3; Opa-Interacting Protein 3; PK, Muscle Type; EC 2.7.11.1; EC 2.7.10.2; HEL-S-30; OIP-3; TCB; PK2
Gene ID	5315.0
SwissProt ID	P14618
Immunogen	A synthesized peptide derived from human PKM2

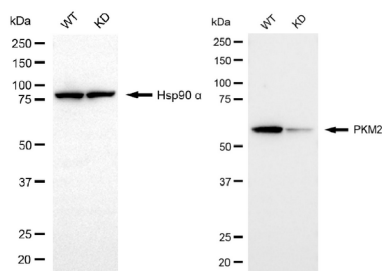
Background

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. [provided by RefSeq, May 2011]

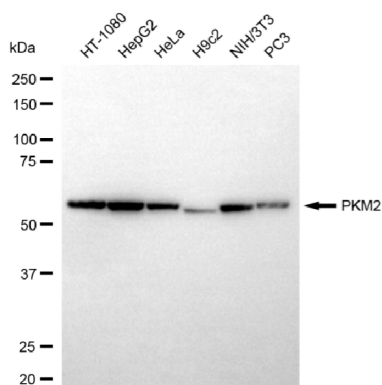
Research Area

Signal Transduction,Cancer,Metabolism

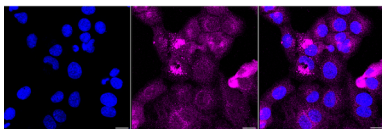
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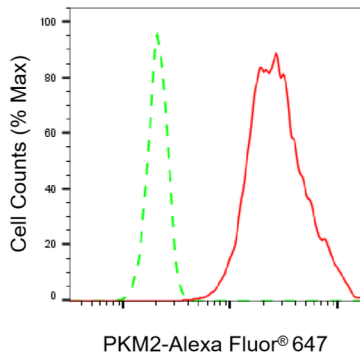
Western blotting analysis using PKM2 antibody (KVA01670). PKM2 expression in wild-type (WT) and PKM knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PKM2 antibody (KVA01670, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using PKM2 antibody (KVA01670). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PKM2 antibody (KVA01670, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with PKM2 antibody (KVA01670, 1:1,000). Nuclei were stained blue with DAPI; PKM2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of PKM2 expression in HT-1080 cells using PKM2 antibody (KVA01670, 1:2,000). Green, isotype control; red, PKM2.