

Datasheet for ABIN3020838
anti-PKM antibody (AA 11-221)



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Overview

Quantity:	100 µL
Target:	PKM
Binding Specificity:	AA 11-221
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKM antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 11-221 of human PKM2 (NP_002645.3).
Sequence:	AFIQTQQLHA AMADTFLEHM CRLDIDSPPI TARNTGIICT IGPASRSVET LKEMIKSGMN VARLNFSHGT HEYHAETIKN VRTATESFAS DPILYRPVAV ALDTKGPEIR TGLIKGSGTA EVELKKGATL KITLDNAYME KCDENILWLD YKNICKVVEV GSKIYVDDGL ISLQVKQKGA DFLVTEVENG GSLGSKKGVN LPGAAVDLPA V
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	PKM
Alternative Name:	PKM (PKM Products)
Background:	<p>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.,CTHBP,HEL-S-30,OIP3,PK3,PKM2,TCB,THBP1,PKM,Epigenetics & Nuclear Signaling,RNA Binding,Cancer,Tumor biomarkers,Signal Transduction,Endocrine & Metabolism,Carbohydrate metabolism,Warburg Effect,PKM</p>
Molecular Weight:	56 kDa/57 kDa/58 kDa
Gene ID:	5315
UniProt:	P14618
Pathways:	Warburg Effect

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:20 - 1:100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

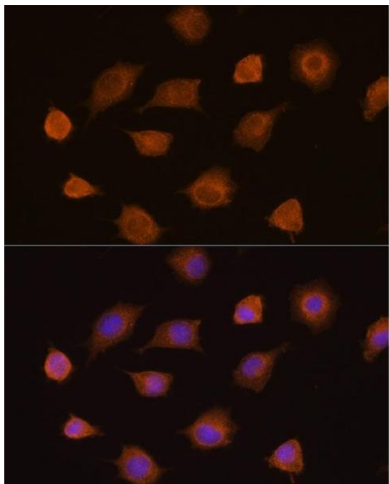
Product cited in:

Wei, Dai, Zhou, He, Yao, Zhao, Guo, Yang: "Oroxylin A activates PKM1/HNF4 alpha to induce hepatoma differentiation and block cancer progression." in: **Cell death & disease**, Vol. 8, Issue 7 , pp. e2944, (2018) ([PubMed](#)).

Wang, Jiang, Ji, Cai, Chen, Yu, Zhu, Zhang: "PKM2 promotes cell migration and inhibits autophagy by mediating PI3K/AKT activation and contributes to the malignant development of gastric cancer." in: **Scientific reports**, Vol. 7, Issue 1, pp. 2886, (2018) ([PubMed](#)).

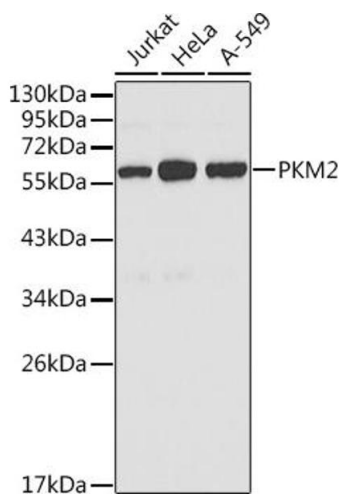
Zou, Wang, Hu, Zheng, Xu, Li: "Specific tumor-derived CCL2 mediated by pyruvate kinase M2 in colorectal cancer cells contributes to macrophage recruitment in tumor microenvironment." in: **Tumour biology**, Vol. 39, Issue 3, pp. 1010428317695962, (2017) ([PubMed](#)).

Images



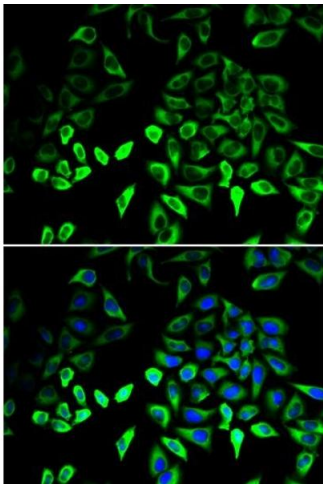
Immunofluorescence

Image 1. Immunofluorescence analysis of L929 cells using PKM2 Rabbit pAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using PKM2 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST.



Immunofluorescence

Image 3. Immunofluorescence analysis of U2OS cells using PKM2 antibody . Blue: DAPI for nuclear staining.