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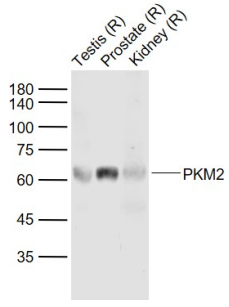
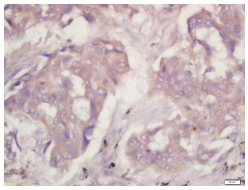
PKM2 Rabbit pAb

Catalog Number:	bs-0101R
Target Protein:	PKM2
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1ug/Test)
Reactivity:	Human, Mouse, Rat (predicted:Rabbit, Pig, Cow, Horse)
Predicted MW:	57 kDa
Entrez Gene:	5315
Swiss Prot:	P14618
Source:	KLH conjugated synthetic peptide derived from human PKM2: 255-350/531.
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	The protein encoded by this gene 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. Three alternatively spliced transcript variants encoding two distinct isoforms have been reported.

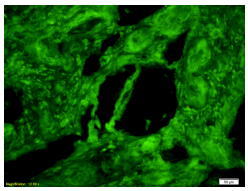
VALIDATION IMAGES



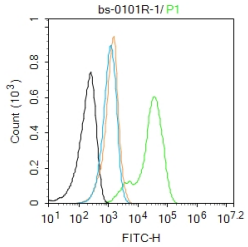
Sample: Lane 1: Testis (Rat) Lysate at 40 ug Lane 2: Prostate (Rat) Lysate at 40 ug Lane 3: Kidney (Rat) Lysate at 40 ug Primary: Anti-PKM2 (bs-0101R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD Observed band size: 61 kD



Tissue/cell: human lung cancer tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PKM2 Polyclonal Antibody, Unconjugated(bs-0101R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human rectal carcinoma;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PKM2 Polyclonal Antibody, Unconjugated(bs-0101R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, FITC conjugated(bs-0295G-FITC)used at 1:200 dilution for 40 minutes at 37°C.



Blank control:A549. Primary Antibody (green line): Rabbit Anti-PKM2 antibody (bs-0101R) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

PRODUCT SPECIFIC PUBLICATIONS

[IF=7.25] Yao, Chun, et al. "Role of FADD Phosphorylation in Regulating Glucose Homeostasis: from Proteomic Discovery to Physiological Validation." Molecular & Cellular Proteomics (2013). WB ; ="Mouse" . 23828893

[IF=6.8] Sun, Xin-Gang. et al. Aerobic Glycolysis Induced by mTOR/HIF-1α Promotes Early Brain Injury After Subarachnoid Hemorrhage via Activating M1 Microglia. TRANSL STROKE RES. 2022 Nov;:1-15 IF ; Rat . 36385451

[IF=6.4] Luting Yang. et al. Upregulated expression of ubiquitin ligase TRIM21 promotes PKM2 nuclear translocation and astrocyte activation in experimental autoimmune encephalomyelitis. ELIFE. 2024 Sep IF ; Mouse . 39264698

[IF=6.048] Changhao Jia. et al. Apigenin sensitizes radiotherapy of mouse subcutaneous glioma through attenuations of cell stemness and DNA damage repair by inhibiting NF-κB/HIF-1α-mediated glycolysis. J NUTR BIOCHEM. 2022 May;:109038 WB ; Human . 35533901

[IF=4.5] Ma Weiwei. et al. Electroacupuncture improves articular microcirculation and attenuates cartilage hypoxia in a male rabbit model of knee osteoarthritis. Journal of Traditional and Complementary Medicine. 2024 Jan;: IHC,WB ; Rabbit . 10.1016/j.jtcme.2024.01.002