bs-3334R **[Primary Antibody]**

phospho-PKM2 (Tyr105) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5315 **SWISS:** P14618

Target: PKM2 (Tyr105)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human PKM2 around the phosphorylation site of Tyr105: IL(p-Y)RP.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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.

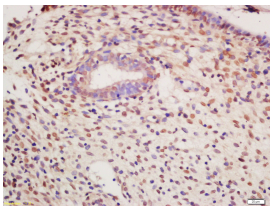
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)
ELISA (1:5000-10000)

Reactivity: Human, Rat, Rabbit (predicted: Mouse, Pig, Cow, Dog, GuineaPig, Horse)

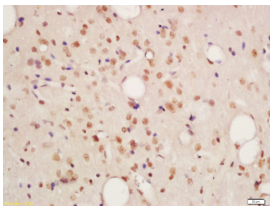
Predicted MW.: 58 kDa

Subcellular Location: Cytoplasm ,Nucleus

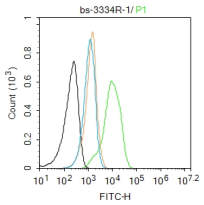
VALIDATION IMAGES



Tissue/cell: human endometrium 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-Phospho-PKM2 (Tyr105) Polyclonal Antibody, Unconjugated(bs-3334R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain 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-Phospho-PKM2 (Tyr105) Polyclonal Antibody, Unconjugated(bs-3334R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:A549. Primary Antibody (green line): Rabbit Anti-Phospho-PKM2 (Tyr105) antibody (bs-3334R) 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.

SELECTED CITATIONS

- **[IF=16.494]** Novoyatleva T et al. Is PKM2 Phosphorylation Prerequisite for Oligomer Disassembly in Pulmonary Arterial Hypertension? Am J Respir Crit Care Med. 2019 Sep 5. ICC,WB ;Human. 31486671

- **[IF=12.4]** Jingyi Wang. et al.A novel pathway for stemness propagation and chemoresistance in non-small cell lung cancer via phosphorylated PKM2-loaded small extracellular vesicles..Theranostics.2025 Feb 24;15(8):3439-3461. IHC ;Human. 40093893
- **[IF=8.593]** Zhang, Zhiyong. et al. Gut fungi enhances immunosuppressive function of myeloid-derived suppressor cells by activating PKM2-dependent glycolysis to promote colorectal tumorigenesis. EXP HEMATOL ONCOL. 2022 Dec;11(1):1-22 IF ;Human. 36348389
- **[IF=3.231]** Lifang Li. et al. Changes in the Expression of MIF and Other Key Enzymes of Energy Metabolism in the Myocardia of Broiler Chickens with Ascites Syndrome. ANIMALS. 2022 Jan;12(19):2488 WB ;Chicken. 36230229