

# Product Datasheet

## PKM1 Antibody (PSH04-37)

### NBP3-32825

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP3-32825**

PKM1 Antibody (PSH04-37)

Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	PSH04-37
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH7.4), 0.1% BSA and 40% Glycerol
Target Molecular Weight	58 kDa

Product Description	
Host	Rabbit
Gene ID	5315
Gene Symbol	PKM
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide within human PKM1 aa 389-433 / 531 (P14618-2). (Uniprot: P14618-2)

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:500, Immunohistochemistry-Paraffin 1:5000-1:30000



## Images

**Western Blot: PKM1 Antibody (PSH04-37) [NBP3-32825]** - Western blot analysis of PKM1 on different lysates with Rabbit anti-PKM1 antibody (NBP3-32825) at 1/1,000 dilution.

Lane 1: HCT 116 cell lysate (20 ug/Lane)  
 Lane 2: U-87 MG cell lysate (20 ug/Lane)  
 Lane 3: HeLa cell lysate (20 ug/Lane)  
 Lane 4: Human brain tissue lysate (40 ug/Lane)  
 Lane 5: Mouse brain tissue lysate (40 ug/Lane)  
 Lane 6: Mouse heart tissue lysate (40 ug/Lane)  
 Lane 7: Mouse liver tissue lysate (negative) (40 ug/Lane)

Predicted band size: 58 kDa  
 Observed band size: 55 kDa

Exposure time: 14 seconds; ECL;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (NBP3-32825) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.

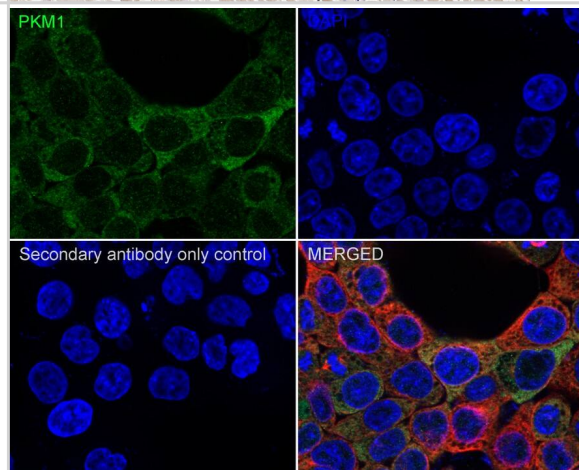
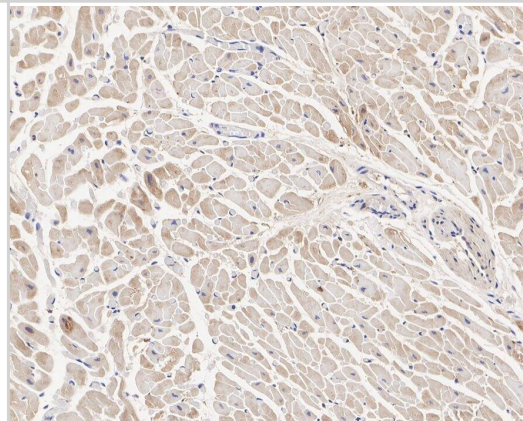
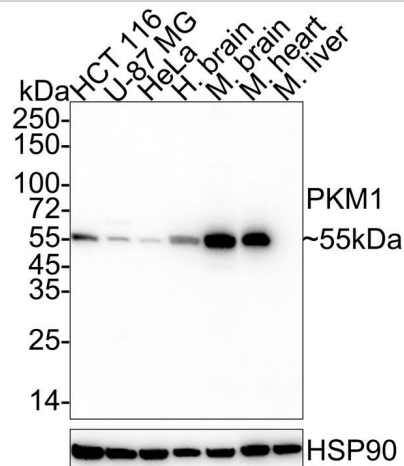
**Immunohistochemistry: PKM1 Antibody (PSH04-37) [NBP3-32825]** - Immunohistochemical analysis of paraffin-embedded human heart tissue with Rabbit anti-PKM1 antibody (NBP3-32825) at 1/30,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (NBP3-32825) at 1/30,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Immunocytochemistry/ Immunofluorescence: PKM1 Antibody (PSH04-37) [NBP3-32825]** - Immunocytochemistry analysis of HCT 116 cells labeling PKM1 with Rabbit anti-PKM1 antibody (NBP3-32825) at 1/200 dilution.

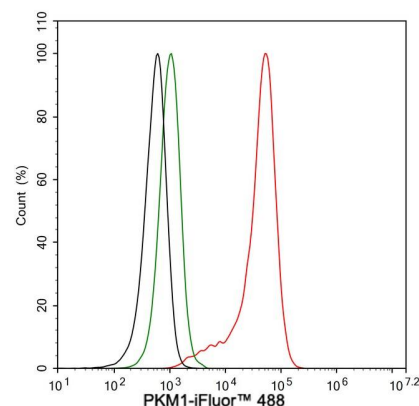
Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-PKM1 antibody (NBP3-32825) at 1/200 dilution in 1% BSA in PBST overnight at 4°C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594) was used as the secondary antibody at 1/1,000 dilution.



# Flow Cytometry: PKM1 Antibody (PSH04-37) [NBP3-32825] - Flow cytometric analysis of HCT 116 cells labeling PKM1.

Cells were fixed and permeabilized. Then stained with the primary antibody (NBP3-32825, 1 µg/mL) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4 °C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).





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### **Products Related to NBP3-32825**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-14833PEP	PKM1 Antibody Blocking Peptide

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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