

# Product Datasheet

## Muscle Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) NBP2-75578

Unit Size: 100 ul

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

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### Publications: 1

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**NBP2-75578**

Muscle Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31)

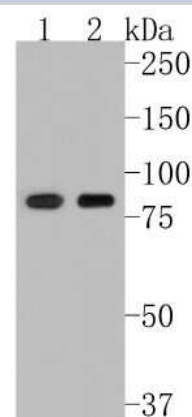
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	JU53-31
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol
Target Molecular Weight	85 kDa

Product Description	
Host	Rabbit
Gene Symbol	PFKM
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide within Human Muscle Phosphofructokinase/PFKM/PFK-1 aa 107-156 / 780. (SwissProt: P08237 Human; SwissProt: P47857 Mouse; SwissProt: P47858 Rat)

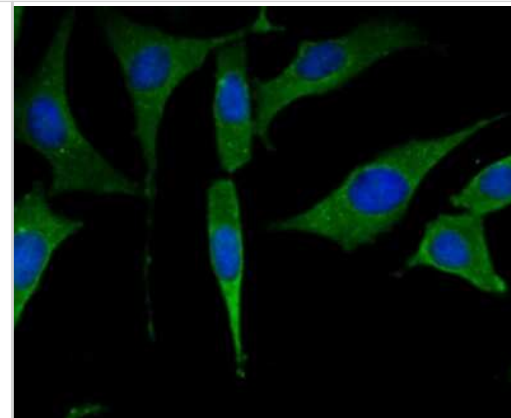
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 1:50-1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunohistochemistry-Paraffin 1:50-1:200

**Images**

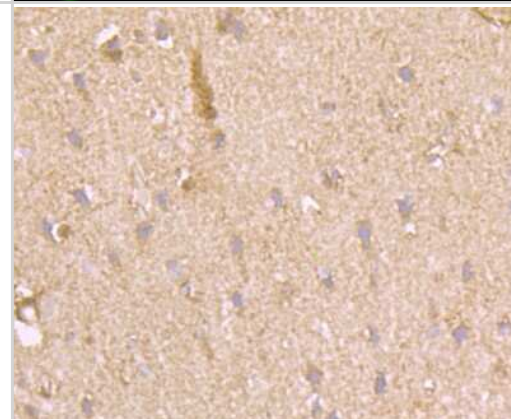
Western Blot: Muscle Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] - Western blot analysis of Muscle Phosphofructokinase/PFKM/PFK-1 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: HepG2 cell lysate Lane 2: PC-3M cell lysate



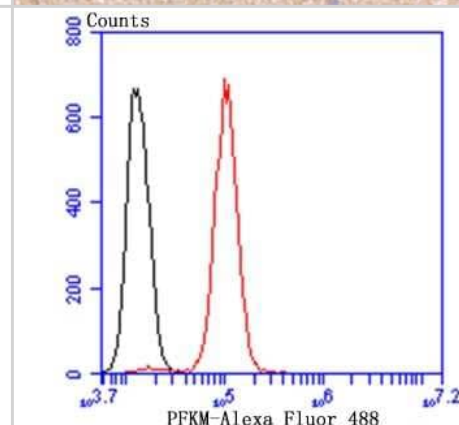
Immunocytochemistry/Immunofluorescence: Muscle Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] - Staining Fructose 6 Phosphate Kinase in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



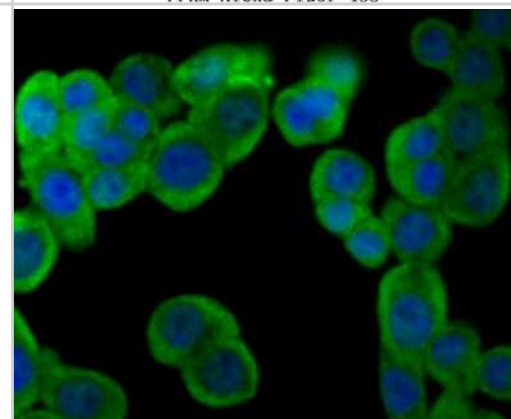
Immunohistochemistry-Paraffin: Muscle Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] - Analysis of paraffin-embedded rat brain tissue using anti-Fructose 6 Phosphate Kinase antibody. Counter stained with hematoxylin.



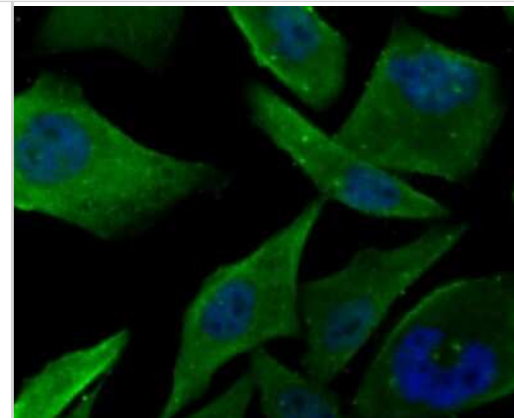
Flow Cytometry: Muscle Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] - Analysis of SH-SY-5Y cells with Fructose 6 Phosphate Kinase antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.



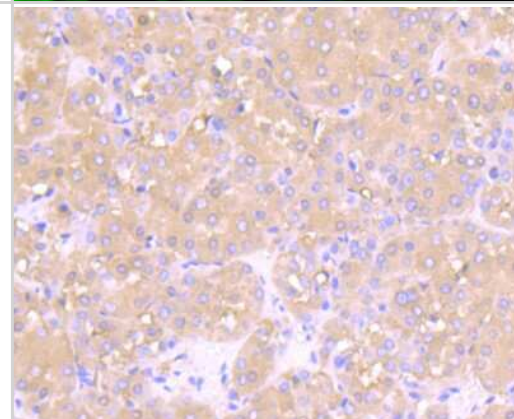
Immunocytochemistry/Immunofluorescence: Muscle Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] - Staining Fructose 6 Phosphate Kinase in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Immunocytochemistry/Immunofluorescence: Muscle  
Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] -  
Staining Fructose 6 Phosphate Kinase in PC-3M cells (green). The  
nuclear counter stain is DAPI (blue). Cells were fixed in  
paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



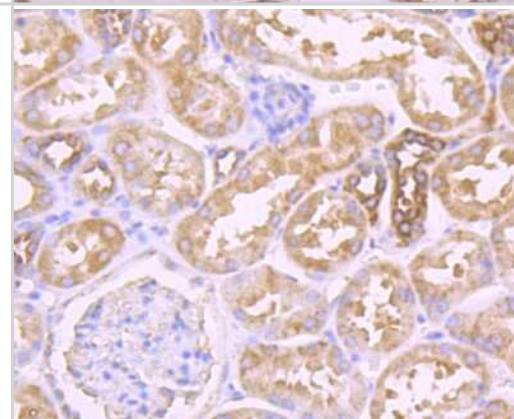
Immunohistochemistry-Paraffin: Muscle  
Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] -  
Analysis of paraffin-embedded human liver cancer tissue using anti-  
Fructose 6 Phosphate Kinase antibody. Counter stained with  
hematoxylin.



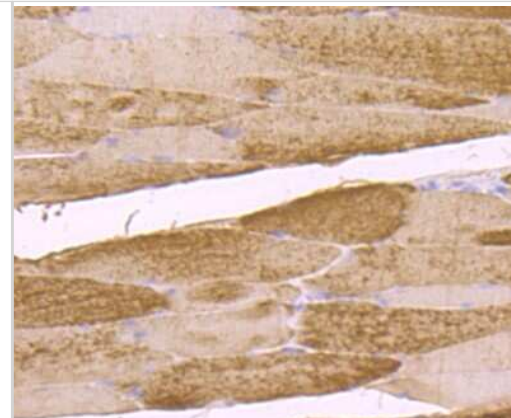
Immunohistochemistry-Paraffin: Muscle  
Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] -  
Analysis of paraffin-embedded human thyroid gland tissue using anti-  
Fructose 6 Phosphate Kinase antibody. Counter stained with  
hematoxylin.



Immunohistochemistry-Paraffin: Muscle  
Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] -  
Analysis of paraffin-embedded human kidney tissue using anti-Fructose  
6 Phosphate Kinase antibody. Counter stained with hematoxylin.



Immunohistochemistry-Paraffin: Muscle  
Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] -  
Analysis of paraffin-embedded mouse skeletal muscle tissue using anti-  
Fructose 6 Phosphate Kinase antibody. Counter stained with  
hematoxylin.



## Publications

Lin S, Yin S, Shi J et al. Orchestration of energy metabolism and osteogenesis by Mg<sup>2+</sup> facilitates low-dose BMP-2-driven regeneration Bioactive Materials 2022-12-01 [PMID: 35387176] (IF/IHC, Mouse)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-75578**

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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
NBP1-44494	Recombinant Human Muscle Phosphofructokinase/PFKM/PFK-1 His Protein

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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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