

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

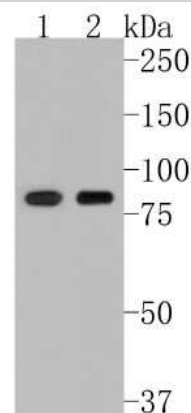
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	JU53-31
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol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

Product Description	
Host	Rabbit
Gene ID	5213
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)

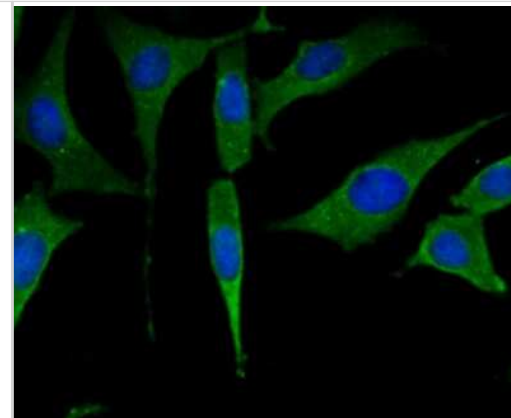
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 1:50-1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence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

**Images**

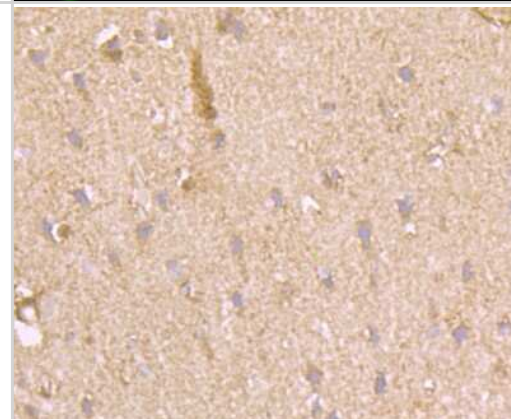
Western Blot: Muscle Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] - Western blot analysis of Muscle Phosphofructokinase/PFKM/PFK-1 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (1/500) 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



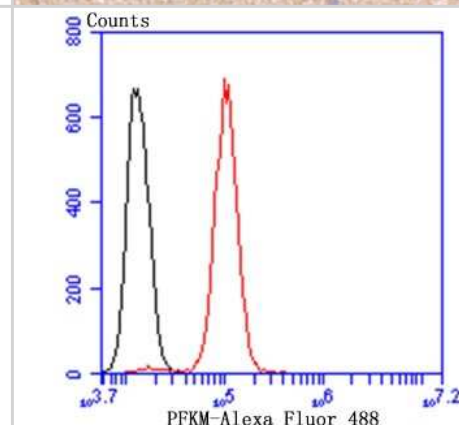
Immunocytochemistry/Immunofluorescence: Muscle Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] - Staining Fructose 6 Phosphate Kinase in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



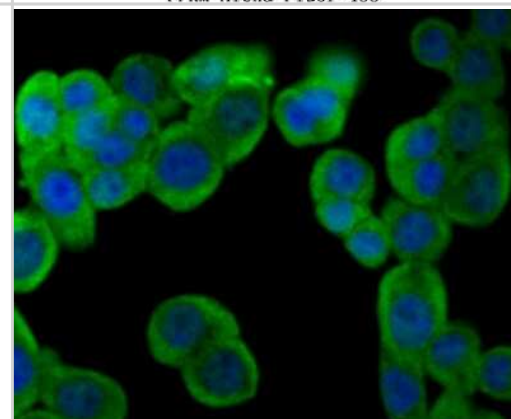
Immunohistochemistry-Paraffin: Muscle Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] - Analysis of paraffin-embedded rat brain tissue using anti-Fructose 6 Phosphate Kinase antibody. Counter stained with hematoxylin.



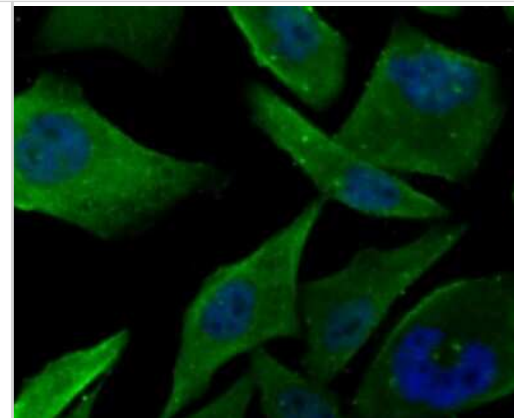
Flow Cytometry: Muscle Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] - Analysis of SH-SY-5Y cells with Fructose 6 Phosphate Kinase antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated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



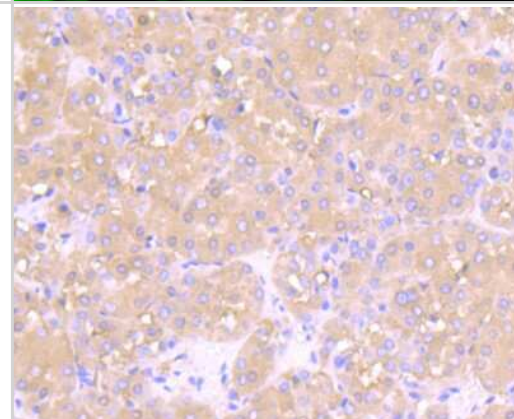
Immunocytochemistry/Immunofluorescence: Muscle Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] - Staining Fructose 6 Phosphate Kinase in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



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.



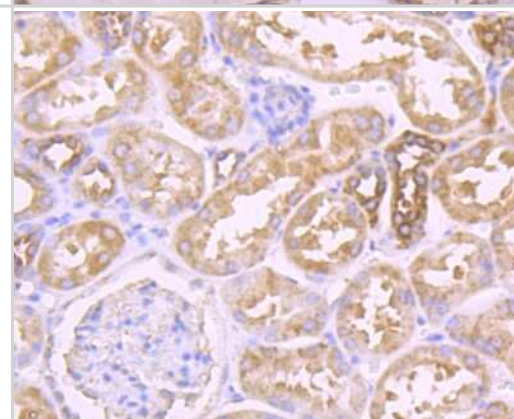
Immunohistochemistry-Paraffin: Muscle  
Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] -  
Analysis of paraffin-embedded human liver cancer tissue using anti-  
Fructose 6 Phosphate Kinase antibody. Counter stained with  
hematoxylin.



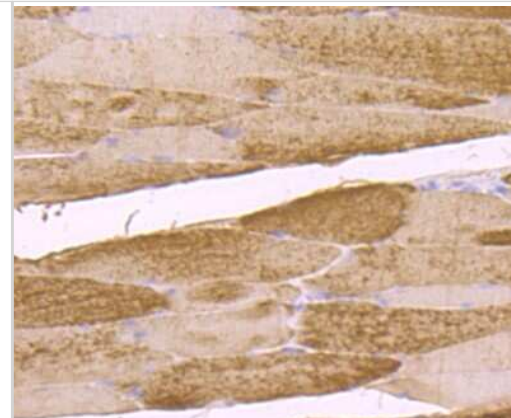
Immunohistochemistry-Paraffin: Muscle  
Phosphofructokinase/PFKM/PFK-1 Antibody (JU53-31) [NBP2-75578] -  
Analysis of paraffin-embedded human thyroid gland tissue using anti-  
Fructose 6 Phosphate Kinase antibody. Counter stained with  
hematoxylin.



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

Toshihide Kashihara, Risa Mukai, Shin-ichi Oka, Peiyong Zhai, Yasuki Nakada, Zhi Yang, Wataru Mizushima, Tsutomu Nakahara, Junco S. Warren, Maha Abdellatif, Junichi Sadoshima YAP mediates compensatory cardiac hypertrophy through aerobic glycolysis in response to pressure overload The Journal of Clinical Investigation 2022-03-15 [PMID: 35133975]

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)





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### **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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