

Product Datasheet

Muscle Phosphofructokinase/PFKM/PFK-1 Antibody - BSA Free NBP2-44228

Unit Size: 0.1 mg

Store lyophilized antibody at 4C. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.

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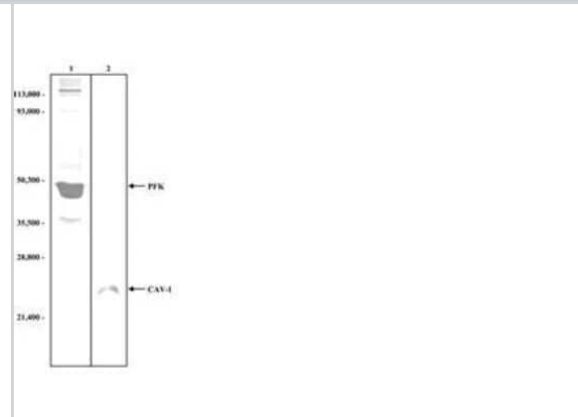


NBP2-44228**Muscle Phosphofructokinase/PFKM/PFK-1 Antibody - BSA Free**

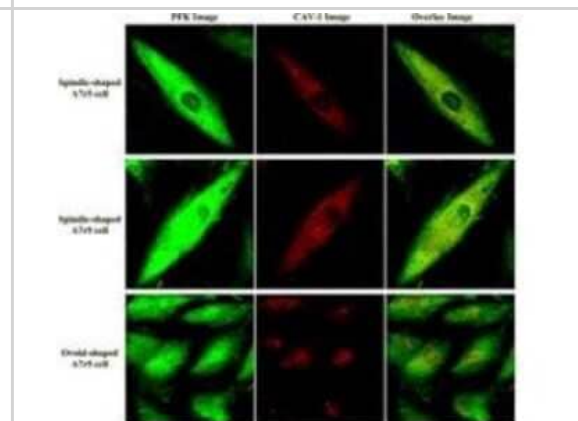
Product Information	
Unit Size	0.1 mg
Concentration	LYOPH mg/ml
Storage	Store lyophilized antibody at 4C. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Reconstitution Instructions	Reconstitute with 100 ul deionized water (or equivalent)
Isotype	IgG
Purity	Multi-step
Buffer	Lyophilized from 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Product Description	
Description	<p>This antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as purified and partially purified Fructose-6-Phosphate Kinase [Rabbit muscle]</p> <p>Store vial at 4C prior to restoration. For extended storage aliquot contents and freeze at -20C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
Host	Goat
Gene ID	5213
Gene Symbol	PFKM
Species	Rabbit
Reactivity Notes	Cross reactivity against Muscle Phosphofructokinase/PFKM/PFK-1 from other sources is expected based on high degrees of sequence homology for muscle derived F6PK. Partial reactivity may occur against F6PK isolated from liver.
Specificity/Sensitivity	Partial reactivity may occur against F6PK isolated from liver.
Immunogen	Full length native Muscle Phosphofructokinase/PFKM/PFK-1 purified from rabbit muscle (Uniprot: P00511)
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:500-1:2000, ELISA 1:1000-1:5000, Immunocytochemistry/ Immunofluorescence 1:200-1:2000
Application Notes	This product has been tested for use in ELISA, immunofluorescence microscopy and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 48 kDa in size corresponding to the processed mature form of F6PK protein by western blotting in the appropriate cell lysate or extract.

Images

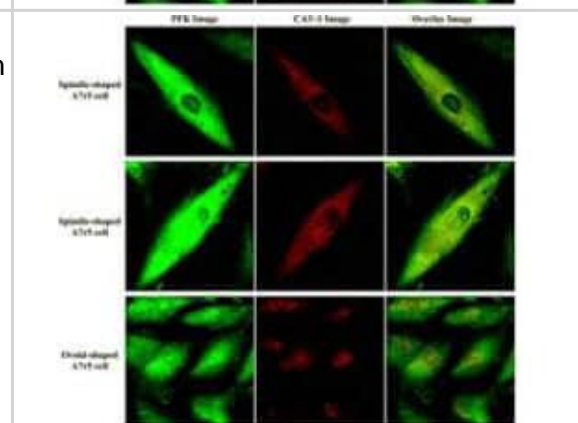
Western Blot: Muscle Phosphofructokinase/PFKM/PFK-1 Antibody [NBP2-44228] - Analysis demonstrates the labeling specificity of the antibodies used for Tissue lysate from hog carotid arteries was analyzed by SDS-PAGE. Nitrocellulose membranes were probed with the corresponding antibodies at the same concentrations used for immunofluorescence labeling. 0.05 (PFK) and 0.2 mg (CAV-1) was loaded into lanes 1 and 2, respectively. Western blot development resulted in identification of the proteins of interest at the expected sizes, demonstrating the labeling specificity of the antibodies. Molecular weights are given. Used with permission from Vallejo and Hardin (2004).



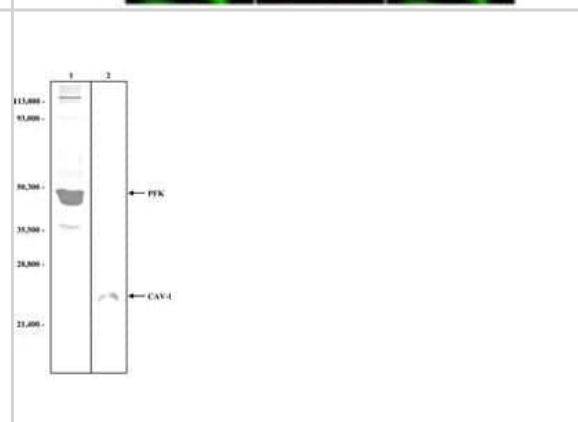
Immunocytochemistry/Immunofluorescence: Muscle Phosphofructokinase/PFKM/PFK-1 Antibody [NBP2-44228] - Cultures of A7r5 VSM cells (rat aorta) were labeled with antibody and anti-caveolin (CAV)-1. Images from labeled A7r5 cells were acquired separately for PFK fluorescence (green) and CAV-1 fluorescence (red) from each cell. Used with permission from Vallejo and Hardin (2004).



Confocal microscopy images using anti-F6PK MAGP-2 antibody shows specific staining. Cultures of A7r5 VSM cells (rat aorta) were labeled with anti-F6PK (PFK) at 1:200 and anti-caveolin (CAV)-1. Images from labeled A7r5 cells were acquired separately for PFK fluorescence (green) and CAV-1 fluorescence (red) from each cell. Used with permission from Vallejo and Hardin (2004).



Western blot analysis demonstrates the labeling specificity of the antibodies used for immunofluorescence (see Fig. 1). Tissue lysate from hog carotid arteries was analyzed by SDS-PAGE. Nitrocellulose membranes were probed with the corresponding antibodies at the same concentrations used for immunofluorescence labeling. 0.05 (PFK) and 0.2 mg (CAV-1) was loaded into lanes 1 and 2, respectively. Western blot development resulted in identification of the proteins of interest at the expected sizes, demonstrating the labeling specificity of the antibodies. Molecular weights are given. Used with permission from Vallejo and Hardin (2004).





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Products Related to NBP2-44228

HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
NBP1-44494	Recombinant Human Muscle Phosphofructokinase/PFKM/PFK-1 His Protein

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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