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Product datasheet for TA396713S

PFKM Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, WB
Recommended Dilution:	**WB**: 1:500 - 1:2,000 **IF**: 1:200 - 1:2,000 **ELISA**: 1:1,000 - 1:5,000
Reactivity:	Rabbit
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Full length native Fructose-6-Phosphate Kinase purified from rabbit muscle
Specificity:	Anti-FRUCTOSE-6-PHOSPHATE KINASE 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]. Cross reactivity against Fructose-6-Phosphate Kinase 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.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Database Link:	Entrez Gene 100345647 Rabbit P00511

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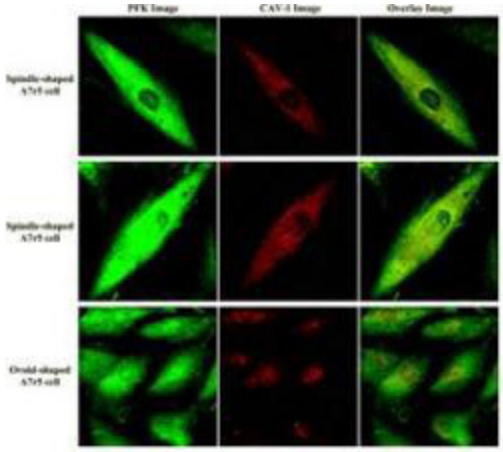
Background: Fructose-6-Phosphate Kinase -2 (F6PK) also known as Phosphofructokinase (PFK) catalyzes the conversion of ATP + D-fructose 6-phosphate to ADP + D-fructose 1,6-bisphosphate and therefore is a key enzyme in the control of glycolysis and carbohydrate degradation. This is a unidirectional and rate-limiting step in glycolysis. Allosteric kinetics control activation by ADP, AMP, or fructose bisphosphate and inhibition by ATP or citrate. The enzyme exists as a homotetramer.

Synonyms: goat anti-Fructose-6-Phosphate Kinase Antibody, 6 Phosphofructokinase Muscle Type antibody, GSD7 antibody, MGC8699 antibody, PFKA antibody, PFKL antibody, PFKM antibody, PFKP antibody, PFKX antibody, Phosphofructo 1 Kinase Isozyme A antibody, Phosphofructokinase 1 antibody

Note: FRUCTOSE-6-PHOSPHATE KINASE antibody 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.

Product images:



Confocal microscopy images using Rockland's 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 - donkey anti-goat IgG conjugated to Alexa 488 (green), CAV-1 - donkey anti-mouse IgG conjugated to Alexa 594 (red) from each cell. Used with permission from Vallejo and Hardin (2004).