

Polyclonal Antibody to Fructose 6 Phosphate Kinase - Biotin

Catalog No.:	R1081B
Quantity:	10 mg
Concentration:	10.0 mg/ml (by UV absorbance at 280 nm)
Background:	Phosphofructokinase catalyzes the irreversible conversion of fructose 6 phosphate to fructose 1,6 bisphosphate. Mammalian PFK is a complex isozyme consisting of 3 subunits: muscle (M), liver (L), and platelet (P). Each subunit is encoded by a separate structural locus on chromosomes 1(M), 21(L), and 10(P). PFKL is the major form in liver and kidney while only M type PFK isozyme is expressed in mature muscle; therefore, muscle contains only homotetramers of M subunits. Erythrocytes contain both L and M subunits, and these randomly tetramerize to form M4, L4, and 3 additional hybrid forms of the holoenzyme.
Host:	Goat
Immunogen:	Fructose-6-Phosphate Kinase [Rabbit muscle].
Format:	State: Lyophilized purified Ig fraction. Purification: Multi-step process. Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01% sodium azide as preservative and 10 mg/ml Bovine Serum Albumin (BSA, IgG and Protease free) as stabilizer. Label: Biotin – Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC) <i>Molar Ratio:</i> 10-20 BAC molecules per Goat IgG molecule. Reconstitution: Restore with 1.0 ml of deionized water (or equivalent).
Applications:	Suitable for Immunoblotting, ELISA, Immunohistochemistry, Immunomicroscopy as well as other antibody based assays using streptavidin or avidin conjugates requiring lot-to-lot consistency. Recommended Dilutions: This product has been assayed against 1.0 ug of Folate Binding Protein in a standard capture ELISA using Peroxidase Conjugated Streptavidin and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) as a substrate for 30 minutes at room temperature. A working dilution of 1:6,000 to 1:28,000 of the reconstitution concentration is suggested for this product. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This product 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-Biotin, 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 may occur but have not been specifically determined.

Storage:

Store vial at 2-8°C prior to restoration. Centrifuge product if not completely clear after standing at room temperature. For extended storage mix product with 50% glycerol and then aliquot contents and freeze at -20°C or below.

This product is stable for one month at 2-8°C as an undiluted liquid.

Dilute only prior to immediate use.

Avoid cycles of freezing and thawing.

Shelf life: One year from despatch.

General Readings:

Bayer & Wilchek Methods in Enzymology 184; 138-160, 1990. (Conjugation)