OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-858-888-7900
Fax: +1-858-888-7904
US-info@acris-antibodies.com

OriGene EU

Acris Antibodies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info@acris-antibodies.com

Polyclonal Antibody to Fructose 6 Phosphate Kinase - HRP

Catalog No.: R1081HRP

Quantity: 20 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% Gentamicin Sulfate as preservative and 10 mg/ml Bovine Serum Albumin (BSA, IgG and Protease free) as stabilizer.
Label: HRP – Horseradish Peroxidase
Reconstitution: Restore with 2.0 ml of deionized water (or equivalent).

Applications: Suitable for Immunoblotting (Western or Dot blot), ELISA, Immunoperoxidase electron microscopy and Immunohistochemistry as well as other peroxidase-antibody based enzymatic assays.
Recommended Dilutions This product has been assayed against 1.0 ug of Fructose-6-Phosphate Kinase [Rabbit Muscle] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) as a substrate for 30 minutes at room temperature.
A working dilution of 1:1,000 to 1:3,500 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-Peroxidase, 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.

Caution: Do Not Use Sodium Azide as Preservative.

General Readings: Farr & Nakane, J. Immunol. Methods 47; 129-144. 1981. (Conjugation)