

**Anti-FRUCTOSE-6-PHOSPHATE KINASE (GOAT) Antibody**  
**Fructose-6-Phosphate Kinase Antibody**  
**Catalog # ASR4073****Specification****Anti-FRUCTOSE-6-PHOSPHATE KINASE (GOAT) Antibody - Product Information**

Host	Goat
Conjugate	Unconjugated
Target Species	Rabbit
Reactivity	Rabbit
Clonality	Polyclonal
Application	WB, E, I, LCI
Application 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.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Full length native Fructose-6-Phosphate Kinase purified from rabbit muscle
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

**Anti-FRUCTOSE-6-PHOSPHATE KINASE (GOAT) Antibody - Additional Information****Other Names**

100345647

**Purity**

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.

**Storage Condition**

Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C 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 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

**Anti-FRUCTOSE-6-PHOSPHATE KINASE (GOAT) Antibody - Protein Information**

**Name** PFKM

**Function**

Catalyzes the phosphorylation of D-fructose 6-phosphate to fructose 1,6-bisphosphate by ATP, the first committing step of glycolysis.

**Cellular Location**

Cytoplasm {ECO:0000255|HAMAP-Rule:MF\_03184}.

**Anti-FRUCTOSE-6-PHOSPHATE KINASE (GOAT) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-FRUCTOSE-6-PHOSPHATE KINASE (GOAT) Antibody - Images****Anti-FRUCTOSE-6-PHOSPHATE KINASE (GOAT) Antibody - 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.