Datasheet for ABIN99443

anti-PFKM antibody

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Overview

Quantity:	2 mL
Target:	PFKM
Reactivity:	Rabbit
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This PFKM antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Fluorescence Microscopy (FM)

Product Details

Immunogen:	Fructose-6-Phosphate Kinase [Rabbit Muscle] Immunogentype:Native
Characteristics:	Concentration Definition: by Refractometry

Target Details

Target:	PFKM
Alternative Name:	Fructose-6-Phosphate Kinase (PFKM Products)
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

Target Details

	homotetramer. Synonyms: 6 Phosphofructokinase Muscle Type antibody, EC 2.7.1.11 antibody, GSD7 antibody, MGC8699 antibody, PFKA antibody, PFKL antibody, PFKM antibody, PFKP antibody, PFKX antibody, Phosphofructo 1 Kinase Isozyme A antibody, Phosphofructokinase 1 antibody
Gene ID:	100345647, 125128
UniProt:	P00511
Pathways:	Positive Regulation of Peptide Hormone Secretion, Negative Regulation of Hormone Secretion, Carbohydrate Homeostasis, Warburg Effect

Application Details

Application Notes:	This purified 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.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Restore with deionized water (or equivalent)
Concentration:	90 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

Publications

Product cited in:	Nakamura, Mori, Eddy: "Molecular complex of three testis-specific isozymes associated with the mouse sperm fibrous sheath: hexokinase 1, phosphofructokinase M, and glutathione S-transferase mu class 5." in: **Biology of reproduction**, Vol. 82, Issue 3, pp. 504-15, (2010) (PubMed).

