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Store at -20C
#8175

PFKL Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	78	Rabbit	#P17858	5211

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

PFKL Antibody recognizes endogenous levels of total PFKL protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human PFKL protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Phosphofructokinase (PFK) catalyzes the phosphorylation of fructose-6-phosphate in glycolysis (1). There are three isozymes: muscle-type, liver-type, and platelet-type (2). The liver-type PFK (PFKL) is the predominant subunit of PFK found in the liver (1,3). Research studies have shown that because of its location on chromosome 21, this enzyme is overexpressed in Down Syndrome/trisomy 21 (3,4). PFKL also may have a role in the physiological response to a low fat diet (5).

Background References

1. Mediavilla, D. et al. (2008) *J Biochem* 144, 235-44.
2. Eto, K. et al. (1994) *Biochem Biophys Res Commun* 198, 990-8.
3. Elson, A. et al. (1994) *Biochem J* 299 (Pt 2), 409-15.
4. Peled-Kamar, M. et al. (1998) *Brain Res* 810, 138-45.
5. Seip, R.L. et al. (2008) *Nutr Metab (Lond)* 5, 4.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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