

PFKP (D2E5) Rabbit mAb

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Applications: W, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #Q01813	Entrez-Gene Id: 5214
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

PFKP (D2E5) Rabbit mAb recognizes endogenous levels of total PFKP protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human PFKP protein.

Background

Phosphofructokinase (PFK) catalyzes the phosphorylation of fructose-6-phosphate in glycolysis (1). There are three isozymes: muscle-type, liver-type, and platelet-type (2,3). Platelet-type phosphofructokinase (PFKP) is expressed in various cell types (4,5). Research studies have shown that genetic variations in PFKP are associated with individuals born small for gestational age that are prone to obesity and diabetes later in adulthood (6).

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. Hannemann, A. et al. (2005) *Gene* 345, 237-47.
4. Morrison, N. et al. (1992) *Hum Genet* 89, 105-6.
5. Vora, S. (1983) *Isozymes Curr Top Biol Med Res* 11, 3-23.
6. Morgan, A.R. et al. (2010) *BMC Med Genet* 11, 125.

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 **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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