

Store at
-20C
#13123**PFKFB3 (D7H4Q) Rabbit mAb**

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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	60	Rabbit IgG	#Q16875	5209

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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

PFKFB3 (D7H4Q) Rabbit mAb recognizes endogenous levels of total PFKFB3 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu456 of human PFKFB3 protein.

Background

The bifunctional 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase (PFK/FBPase or PFKFB) catalyzes the synthesis and degradation of fructose 2,6-bisphosphate and regulates its steady-state level (1,2). Fructose 2,6-bisphosphate activates phosphofructokinase, a rate-limiting enzyme in glycolysis, by allosteric regulation (1,2). Four different PFKFB isoforms (PFKFB1, PFKFB2, PFKFB3, and PFKFB4) have been identified (1,2). One of them, PFKFB3/iPFK-2, was shown to be inducible by hypoxia leading to increased glycolysis under hypoxic conditions (2). Research studies have shown that PFKFB3/iPFK-2 is also highly expressed in some types of human cancer (3).

Background References

1. Atsumi, T. et al. (2005) *Diabetes* 54, 3349-57.
2. Kim, S.G. et al. (2006) *J Biol Chem* 281, 2939-44.
3. Atsumi, T. et al. (2002) *Cancer Res* 62, 5881-7.

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 nonfat dry milk, 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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