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#39527**PhosphoPlus® PFKFB2 (Ser483) Antibody Duet****Orders:** 877-616-CELL (2355)
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For Research Use Only. Not for Use in Diagnostic Procedures.**UniProt ID:** #O60825
Entrez-Gene Id: 5208

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
PFKFB2 (D5I5F) Rabbit mAb	13029	100 µl	55 kDa	Rabbit IgG
Phospho-PFKFB2 (Ser483) (D4R1W) Rabbit mAb	13064	100 µl	55 kDa	Rabbit IgG

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.**Description**

PhosphoPlus® Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.

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.*

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). Research studies indicate that amino acids activate PFKFB2 through Akt-dependent phosphorylation at Ser483 on PFKFB2 (3). In addition, androgen increases the expression of PFKFB2 in prostate cancer cells (4).

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. Novellasdemunt, L. et al. (2013) *J Biol Chem* 288, 10640-51.
4. Moon, J.S. et al. (2011) *Biochem J* 433, 225-33.

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