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Phospho-PFKFB3 (S269) Antibody, Rabbit Polyclonal

Cat#: R3359-1

Quantity: 100 ul

Predicted M.W.: 60 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q16875

Background:

6-phosphofructo-2-kinase/fructose-2,6-biphosphatase isoform3 (PFKFB3) is a major driver of aerobic glycolysis involved in the synthesis and degradation of fructose 2,6-bisphosphate. Recent studies indicate that IKK β directly interacts with and phosphorylates PFKFB3 at Ser269 upon glutamine deprivation to inhibit its activity, thereby down-regulating aerobic glycolysis when glutamine levels are low (Reid et al., 2016, *Genes Dev.*, 30:1837-1851).

Other Names:

6PF-2-K, Fru-2,6-P2ase 3, PFK, FB Pase 3, NY-REN-56, iPFK-2

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with the synthetic phosphor-peptide LGGRIGGD-pS-GLSSR corresponding to the amino acids 261-274 of human PFKFB3 protein containing phosphorylated Ser269. Antiserum was purified by a two-step affinity purification procedure to obtain antibody that specifically recognizes the Ser269 phosphorylated PFKFB3 protein.

Storage Buffer and Condition:

Supplied in 1 x PBS (PH7.4), 100ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Human

Tested Applications:

WB: 1:1,000-1:3,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.



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Product Data:

See experimental data described in Reid et al., 2016, *Genes Dev.*, 30:1837-1851.

Reference:

1. Reid MA, Lowman XH, Pan M, Tran TQ, Warmoes MO, Ishak Gabra MB, Yang Y, Locasale JW, Kong M. IKK β promotes metabolic adaptation to glutamine deprivation via phosphorylation and inhibition of PFKFB3. *Genes Dev.*, 30:1837-1851, 2016.