

For Research Use Only

Phospho-PFKFB2 (Ser483) Recombinant monoclonal antibody

Catalog Number: 87525-1-RR



Basic Information

Catalog Number:

87525-1-RR

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_006212

GeneID (NCBI):

5208

UNIPROT ID:

O60825

Full Name:

6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2

Calculated MW:

58 kDa

Observed MW:

55 kDa

Purification Method:

Protein A purification

CloneNo.:

252874F10

Recommended Dilutions:

WB: 1:1000-1:4000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB: IGF-1 treated MCF-7 cells, HeLa cells

Background Information

Phospho-PFKFB2 (Ser483) is the active-site-switching modification of the heart-type bifunctional enzyme 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase (PFKFB2). Phosphorylation at serine 483, located in the C-terminal regulatory segment, is catalyzed mainly by Akt downstream of PI3K and is essential for maximal 2-kinase activity: it increases the synthesis of fructose-2,6-bisphosphate (F2,6BP), the most potent allosteric activator of 6-phosphofructo-1-kinase (PFK-1), thereby accelerating glycolytic flux and ATP production. (PMID: 34282152)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

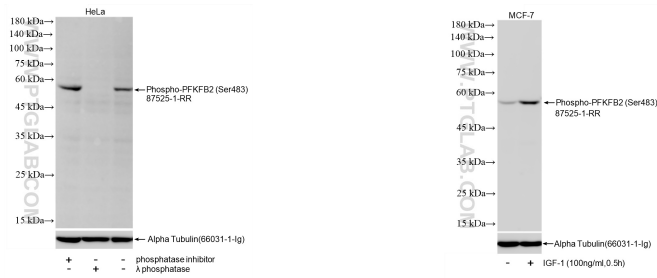
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Selected Validation Data



Non-treated HeLa cells, phosphatase inhibitor treated HeLa cells and λ phosphatase treated HeLa cells were subjected to SDS PAGE followed by western blot with 87525-1-RR (Phospho-PFKFB2 (Ser483) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control.

Non-treated MCF-7 cells and IGF-1 treated MCF-7 cells were subjected to SDS PAGE followed by western blot with 87525-1-RR (Phospho-PFKFB2 (Ser483) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control.