

For Research Use Only

IGFBP1 Recombinant antibody

Catalog Number: 83347-5-RR



Basic Information

Catalog Number:

83347-5-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_000596.4

GeneID (NCBI):

3484

UNIPROT ID:

P08833

Full Name:

IGF binding protein 1

Calculated MW:

28 kDa

Observed MW:

28-35 kDa

Purification Method:

Protein A purification

CloneNo.:

240263B9

Recommended Dilutions:

WB 1:1000-1:6000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : HepG2 cells,

Background Information

IGF-binding proteins (IGFBPs) family contains members like IGFBP-1, -2, -3, -4, -5 and -6. IGFBPs prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors. IGF-I physically interacts with IGFBP-1 and that IGFBP-1 also binds to an integrin receptor, but the effect of IGFBP-1 on cell migration may be independent of IGF-I and is probably mediated through the alpha 5 beta 1 integrin. Transgenic mice models demonstrated that IGFBPs played important roles in the pathogenesis of obesity and INS resistance. Studies conducted in humans demonstrated the close relation between IGFBPs and the components of the metabolic syndrome.

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

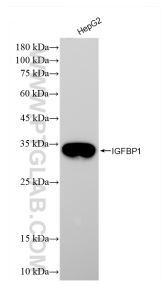
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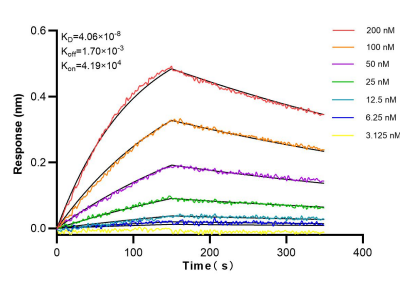
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Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 83347-5-RR (IGFBP1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83347-5-RR against Human IGFBP1 were performed. The affinity constant is 40.6 nM.