For Research Use Only

Adiponectin receptor Recombinant antibody

Catalog Number:85121-4-RR

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Antibodies | ELISA kits | Proteins
Uni-rAb
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Basic Information

Catalog Number:
85121-4-RR

Size:
100ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5744

GenBank Accession Number:
BC051858

GeneID (NCBI):
79602

UNIPROT ID:
Q86V24

Full Name:
adiponectin receptor 2

Calculated MW:
44 kDa

Observed MW:
45 kDa

Purification Method:
Protein A purification

CloneNo.:
242777F3

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:400-1:1600
IF-P 1:300-1:1200

Applications

Tested Applications:
WB, IHC, IF-P, IP, ELISA

Species Specificity:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, A549 cells, L02 cells, rat uterus tissue, human placenta tissue

IP : mouse liver tissue,

IHC : rat liver tissue, mouse liver tissue

IF-P : mouse liver tissue,

Background Information

Adiponectin is a hormone secreted by adipocytes that acts as an antidiabetic and anti-atherogenic adipokine. Two receptors for adiponectin (ADIPOR1 and ADIPOR2) have been identified. They mediate increased AMPK, MAPK, and PPARA ligand activity in response to adiponectin. AdipoR1 is abundantly expressed in skeletal muscle, whereas AdipoR2 is predominantly expressed in the liver. The human ADIPOR2 gene maps to chromosome 12p13.31, and encodes a 386-amino acid protein with a molecular weight of 44 kDa. AdipoR2 may also exist as stable ~ 60 kDa dimers (PMID: 18842004). This antibody raised against 1-147aa of human AdipoR2 may cross-react with AdipoR1.

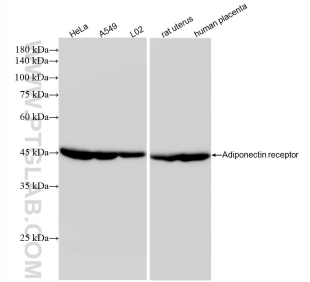
Storage

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

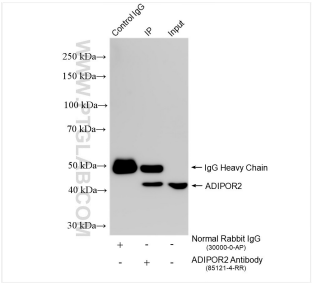
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

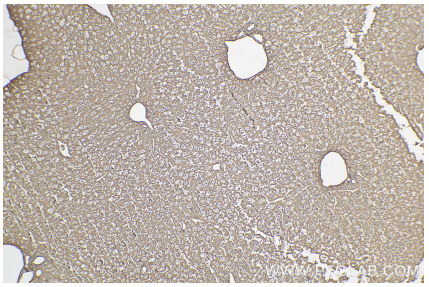
Selected Validation Data



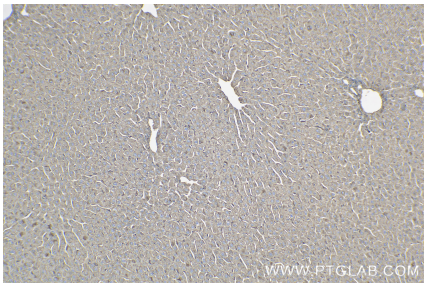
Various lysates were subjected to SDS PAGE followed by western blot with 85121-4-RR (ADIPOR2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



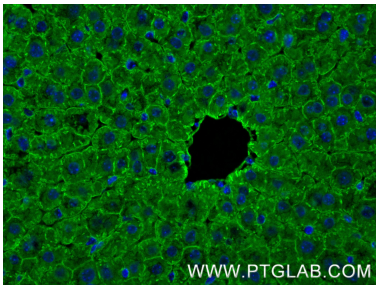
IP result of anti-Adiponectin receptor (IP:85121-4-RR, 4ug; Detection:85121-4-RR 1:2000) with mouse liver tissue lysate 2400 ug.



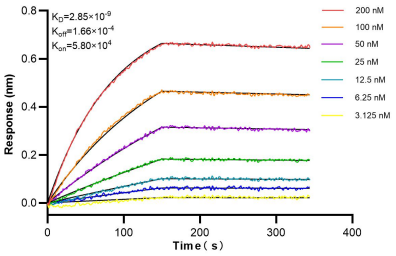
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 85121-4-RR (Adiponectin receptor antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 85121-4-RR (Adiponectin receptor antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using Adiponectin receptor antibody (85121-4-RR, Clone: 242777F3) at dilution of 1:600 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 85121-4-RR against Human Adiponectin receptor were performed. The affinity constant is 2.85 nM.