

Human Active Adiponectin Receptor 1 (ADIPOR1)

Catalog # IC8147

FOR IN VITRO USE AND RESEARCHUSE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

[PROPERTIES]

Source: Prokaryotic expression.

Host: E. coli

Residues: Met1~Gly136

Tags: Two N-terminal Tags, His-tag and MBP-tag

Purity: >98%

Buffer Formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 0.05% sarcosyl

and 5% trehalose.

Applications: Cell culture; Activity Assays; In vivo assays.

(May be suitable for use in other assays to be determined by the end user.)

Predicted isoelectric point: 5.4

Predicted Molecular Mass: 65.4kDa

Accurate Molecular Mass: 63kDa as determined by SDS-PAGE reducing conditions.

[USAGE]

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss

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rate is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCE]

MSSHKGSVVA OGNGAPASNR EADTVELAEL GPLLEEKGKR VIANPPKAEE EOTCPVPOEE EEEVRVLTLP LOAHHAMEKM EEFVYKVWEG RWRVIPYDVL PDWLKDNDYL LHGHRPPMPS FRACEKSIFR IHTETG

[ACTIVITY]

ADIPOR1 (Adiponectin receptor protein 1) is a receptor for ADP (30kDa adipocyte complement-related protein), an essential hormone secreted by adipocytes that regulates glucose and lipid metabolism. ADIPOQ-binding activates a signaling cascade that leads to increased AMPK activity, and ultimately to increased fatty acid oxidation, increased glucose uptake and decreased gluconeogenesis. Besides, human ADP and rat ADP exist similarities in amino acid sequence with the identity of 83.2%. Thus a binding ELISA assay was conducted to detect the interaction of recombinant human ADIPOR1 and recombinant rat ADP. Briefly, ADIPOR1 were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to ADP-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-ADIPOR1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of of ADIPOR1 and ADP was shown in Figure 1, and this effect was in a dose dependent manner.





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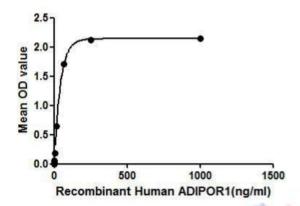
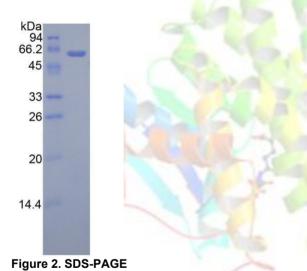


Figure 1. The binding activity of ADIPOR1 with ADP.

[IDENTIFICATION]



Sample: Active recombinant ADIPOR1, Human





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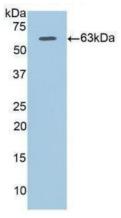


Figure 3. Western Blot

Sample: Recombinant ADIPOR1, Human;
Antibody: Rabbit Anti-Human ADIPOR1 Ab

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.





