

Adiponectin Receptor 1 (ADIPOR1) Active Protein | ADIPOR1 active protein

Active Adiponectin Receptor 1 (ADIPOR1)

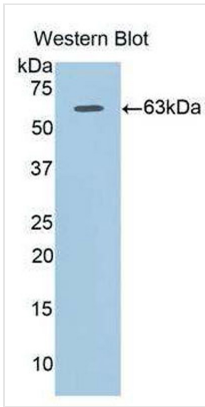
CATALOG # AAA21107	HOST E. coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS Cell Culture, Activity Assay
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PRODUCT SYNONYMS

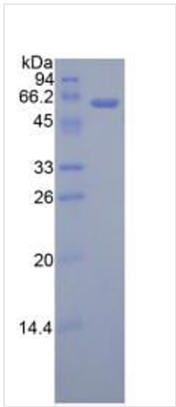
Adiponectin Receptor 1 (ADIPOR1); Active Adiponectin Receptor 1 (ADIPOR1); ADIPOR1 active protein

PRODUCT SPECIFICATIONS

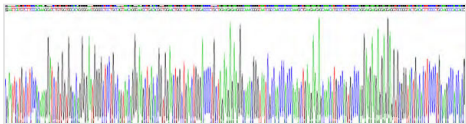
Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>98%
Form/Format	PBS, pH7.4, containing 0.01% Tween80, 5% Trehalose.
Concentration	Original Concentration: 300ug/mL (varies by lot)
Applicable Applications for ADIPOR1 active protein	Cell Culture, Activity Assay
Application Notes	(May be suitable for use in other assays to be determined by the end user.)
Source	Prokaryotic expression.
Residues	Met1~Gly136
Tags	Two N-terminal Tags, His-tag and MBP-tag
Endotoxin Level	<1.0EU per 1?g (determined by the LAL method).
Predicted isoelectric point	5.4
Usage	Reconstitute in ddH2O to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree 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 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



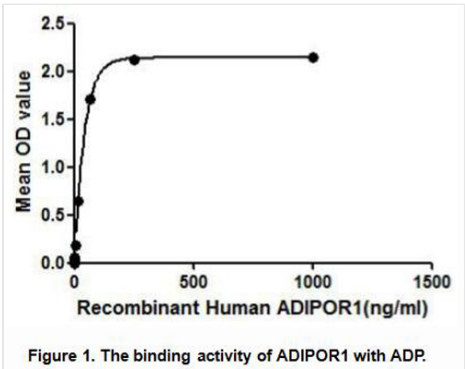
WB (Western Blot)
Western Blot (WB) Sample: Recombinant ADIPOR1, Human; Antibody: Rabbit Anti-Human ADIPOR1 Ab



SDS-PAGE
Sample: Active recombinant ADIPOR1, Human



Gene Sequencing (extract)



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 degree 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 degree C. Finally, add 50uL 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.

MSSHKGSVVA QNGAPASNR EADTVLAEI GPLEEKGR VIANPPKAE
EQTCPVPQEE EEEVRVLTLP LQAHAMEKM EEFVYKWNW RWRVIPYDVL
PDWLKDNDYL LHGHRPPMPS FRACFKSIFR IHTETG

Sequence Information

ADDITIONAL INFORMATION

Product Categories/Family for ADIPOR1 active protein Metabolic pathway

NCBI AND UNIPROT INFORMATION

NCBI GI #	594952025
NCBI GeneID	51094
NCBI Accession #	NP_001277482.1

NCBI GenBank Nucleotide #	NM_001290553.1
Molecular Weight	Predicted Molecular Mass: 65.4kDa Accurate Molecular Mass: 63kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	adiponectin receptor protein 1
NCBI Official Synonym Full Names	adiponectin receptor 1
NCBI Official Symbol	ADIPOR1
NCBI Official Synonym Symbols	CGI45; PAQR1; ACDRC1; CGI-45; TESBP1A
NCBI Protein Information	adiponectin receptor protein 1
UniProt Protein Name	Adiponectin receptor protein 1
UniProt Gene Name	ADIPOR1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-homo-sapiens-human-active-protein/adiponectin-receptor-1-adipor1/21107>