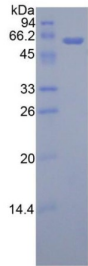
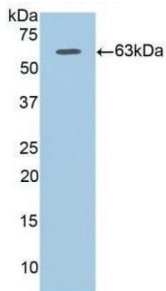


## Human Adiponectin Receptor 1 (ADIPOR1) Protein

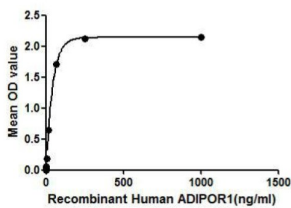
Catalogue No.: abx651293



SDS-PAGE analysis of recombinant active Human ADIPOR1.



Western blot analysis of recombinant Human ADIPOR1, with Rabbit Anti-Human ADIPOR1 Antibody ([abx128471](#)).



Binding activity of ADIPOR1 with ADP.

Human Adiponectin Receptor 1 (ADIPOR1) Protein (Active) is an active Human protein.

**Target:** Adiponectin Receptor 1 (ADIPOR1)

**Origin:** Human

**Expression:** Recombinant

**Tested Applications:** WB, SDS-PAGE

**Host:** E. coli

**Conjugation:** Unconjugated

**Form:** Lyophilized

# Datasheet

Version: 3.0.0  
Revision date: 06 Sep 2025



**Activity:** Active

**Biological Activity:** Adiponectin Receptor 1 (ADIPOR1) is a receptor for 30 kDa adipocyte complement-related protein (ADP), 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. Human ADP and rat ADP have very similar amino acid sequence with an 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 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to ADP-coated microplate wells and incubated for 2 h at 37°C. Wells were washed with PBST and incubated for 1 h with anti-ADIPOR1 polyclonal antibody, then aspirated and washed 3 times. After incubation with HRP-conjugated secondary antibody, wells were aspirated and washed 3 times. TMB substrate solution was added and wells were incubated for 15-25 minutes at 37 °C. Finally, 50 µl stop solution was added to the wells and the absorbance was read at 450 nm immediately. The binding activity of ADIPOR1 and ADP is shown in Figure 3.

**Purity:** > 98%

**Reconstitution:** Reconstitute in ddH<sub>2</sub>O to a concentration between 0.1-1.0 mg/ml. Do not vortex.

**Storage:** Store at 2-8°C for up to one month. For long-term storage, store at -80°C. Avoid repeated freeze/thaw cycles.

**UniProt Primary AC:** Q96A54 ([UniProt](#), [ExPASy](#))

**KEGG:** hsa:51094

**String:** [9606.ENSP00000341785](#)

**Molecular Weight:** Calculated MW: 65.4 kDa  
Observed MW: 63 kDa

**Sequence Fragment:** Met1-Gly136

**Sequence:** MSSHKGSVVA QGNGAPASNR EADTVELAEI GPLLEEKGKR VIANPPKAAE EQTCPVPQEE  
EEEVRLTLPLQAHHAMEKM EEFVYKVGWEG RWRVIPYDVL PDWLKDNDYL LHGHRPPMPS  
FRACFKSIFR IHTETG

**Tag:** N-terminal His tag and MBP tag

**Buffer:** Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, containing 0.05% Sarcosyl, 5% Trehalose.

**Concentration:** Prior to lyophilization: 200 µg/ml

**Note:** THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.