

Datasheet for ABIN6239829

**Adiponectin Receptor 1 Protein (ADIPOR1) (AA 1-136) (His tag,GST tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	50 µg
Target:	Adiponectin Receptor 1 (ADIPOR1)
Protein Characteristics:	AA 1-136
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This Adiponectin Receptor 1 protein is labelled with His tag,GST tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

## Product Details

Characteristics:	Tag location: N-terminal His and GST Tag
Purity:	> 97 %
Biological Activity Comment:	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.

## Product Details

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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 ADIPOR1 and ADP was shown in Figure 1, and this effect was in a dose dependent manner. The binding activity of ADIPOR1 with ADP.

## Target Details

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Target:	Adiponectin Receptor 1 (ADIPOR1)
Abstract:	<a href="#">ADIPOR1 Products</a>
Background:	Alternative Names: ACDCR1, CGI45, PAQR1, TESBP1A, TESBP1-A, Progestin and AdipoQ Receptor Family Member I
Molecular Weight:	63kDa
UniProt:	<a href="#">Q96A54</a>
Pathways:	<a href="#">AMPK Signaling</a>

## Application Details

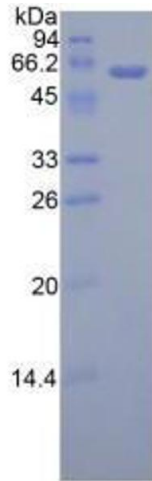
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Application Notes:	Isoelectric Point: 5.4
Restrictions:	For Research Use only

## Handling

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Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.



**Image 1.**