

# Mouse Adiponectin receptor protein 1 (ADIPOR1) ELISA Kit



Catalog No: #EK7733

Orders: order@signalwayantibody.com

Package Size: #EK7733-1 48T #EK7733-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Mouse Adiponectin receptor protein 1 (ADIPOR1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	ACDCR1; CGI-45; CGI45; FLJ25385; FLJ42464; PAQR1; TESBP1A;
Accession No.	Q91VH1
Uniprot	Q91VH1
GeneID	72674;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:3.12-200 ng/mL

Sensitivity:1.17 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate ADIPOR1 in samples. An antibody specific for ADIPOR1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyADIPOR1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADIPOR1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ADIPOR1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Human ADIPOR1 also has 375 amino acids and shares 96.8% identity with the mouse protein. ADIPOR1 and ADIPOR2 are highly related structurally, and mouse Adipor1 and Adipor2 share 66.7% identity. ADIPOR1 and ADIPOR2 are 7-transmembrane domain proteins, but they are structurally, topologically, and functionally distinct from G protein-coupled receptors (GPCRs). Epitope tag labeling showed that the N terminus is internal and the C terminus is external in the ADIPORs, a topology opposite that of GPCRs. ADIPOR1 and ADIPOR2 are conserved from yeast to human, especially in the membrane-spanning regions. The authors noted that the yeast homolog has a principal role in metabolic pathways that regulate lipid metabolism, such as fatty acid oxidation.

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Note: This product is for in vitro research use only