

Rabbit anti-Human ADIPOR2 Polyclonal Antibody | anti-ADIPOR2 antibody

ADIPOR2, ID (ADIPOR2, PAQR2, Adiponectin receptor protein 2, Progesterone and adiponectin receptor family member II)

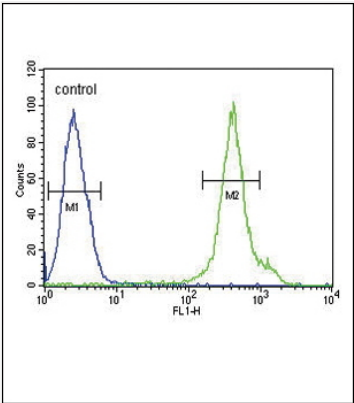
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA14774	Rabbit	Human	ELISA, Western Blot, Flow Cytometry, Functional Assay, Immunofluorescence

PRODUCT SYNONYMS

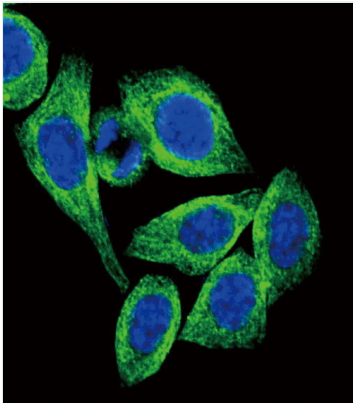
ADIPOR2; Polyclonal Antibody; ID (ADIPOR2; PAQR2; Adiponectin receptor protein 2; Progesterone and adiponectin receptor family member II); Anti -ADIPOR2; anti-ADIPOR2 antibody

PRODUCT SPECIFICATIONS

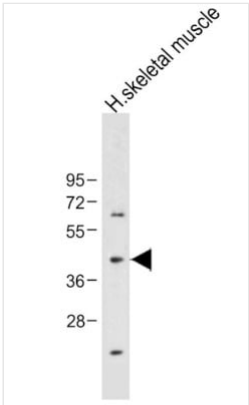
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ADIPOR2 antibody is generated from rabbits immunized with KLH conjugated synthetic peptide between 45-72 amino acids from the Central region of human ADIPOR2.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Concentration	0.39 mg/mL (varies by lot)
Applicable Applications for anti-ADIPOR2 antibody	ELISA, WB (Western Blot), FCM/FACS (Flow Cytometry), IF (Immunofluorescence)
Application Notes	WB~~1:1000 FC~~1:25 IF~~1:10~50
Immunogen	KLH conjugated synthetic peptide mapping to a fragment of residues within amino acids 45-72 in the central region of human ADIPOR2, UniProt Accession #Q86V24.
Function	Receptor for ADIPOQ, an essential hormone secreted by adipocytes that regulates glucose and lipid metabolism (PubMed:12802337, PubMed:25855295). Required for normal body at and glucose homeostasis. ADIPOQ-binding activates a signaling cascade that leads to increased PPARα activity, and ultimately to increased fatty acid oxidation and glucose uptake. Has intermediate affinity for globular and full-length adiponectin. Required for normal revascularization after chronic ischemia caused by severing of blood vessels (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein Note=Localized to the cell membrane and intracellular organelles
Tissue Location	Ubiquitous (PubMed:16044242). Highly expressed in skeletal muscle, liver and placenta (PubMed:12802337). Weakly expressed in brain, heart, colon, spleen, kidney, thymus, small intestine, peripheral blood leukocytes and lung (PubMed:12802337)
Antigen Region	45-72
Precautions	ADIPO2 Antibody (center) is for research use only
Preparation and Storage	Maintain refrigerated at 2°C to 8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



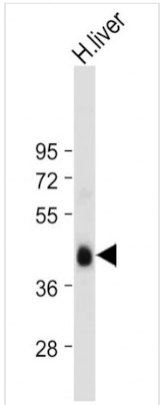
FCM (Flow Cytometry)
Flow cytometric analysis of Hela cells (right histogram) using AAA14774 compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



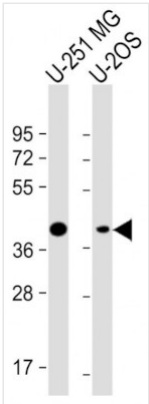
IF (Immunofluorescence)
Confocal immunofluorescent analysis of Hela cell using AAA14774 followed by Alexa Fluor489-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



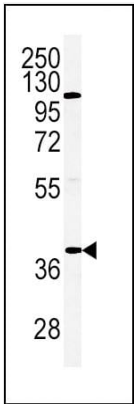
WB (Western Blot)
Anti-ADIPOR2 Antibody (Center) at 1:1000 dilution + Human skeletal muscle tissue lysate. Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



WB (Western Blot)
Anti-ADIPOR2 Antibody (Center) at 1:1000 dilution + Human liver tissue lysate. Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



WB (Western Blot)
All lanes : Anti-ADIPOR2 Antibody (Center) at 1:2000 dilution. Lane 1: U-251 MG whole cell lysate. Lane 2: U-2OS whole cell lysate. Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



WB (Western Blot)
Western Blot analysis in Hela cell line lysates (35ug/lane) using of AAA14774. ADIPOR2 (arrow) was detected using AAA14774.

ADDITIONAL INFORMATION

Related Product Information for anti-ADIPOR2 antibody	The adiponectin receptors, ADIPOR1 (MIM 607945) and ADIPOR2, serve as receptors for globular and full-length adiponectin (MIM 605441) and mediate increased AMPK (see MIM 602739) and PPAR-alpha (PPARA; MIM 170998) ligand activities, as well as fatty acid oxidation and glucose uptake by adiponectin.
Product Categories/Family for anti-ADIPOR2 antibody	Antibodies; Abs to Obesity Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	38261973
NCBI GeneID	79602
NCBI Accession #	NP_078827.2
NCBI GenBank Nucleotide #	NM_024551.2
UniProt Accession #	Q86V24; Q53YY5; Q9H737
NCBI Official Full Name	adiponectin receptor protein 2
NCBI Official Synonym Full Names	adiponectin receptor 2
NCBI Official Symbol	ADIPOR2
NCBI Official Synonym Symbols	PAQR2; ACDCR2
NCBI Protein Information	adiponectin receptor protein 2; progestin and adipoQ receptor family member II
UniProt Protein Name	Adiponectin receptor protein 2
UniProt Gene Name	ADIPOR2
UniProt Synonym Gene Names	PAQR2
UniProt Entry Name	ADR2_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/adipor2-antibody-western-blot-flow-cytometry-immunofluorescence-elisa/14774>