

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

ADIPOR2 Antibody (Center)

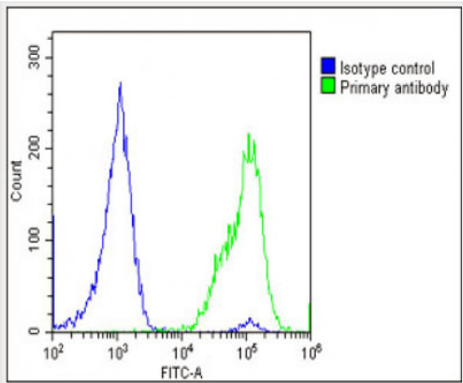
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28654	Rabbit	Human	Western Blot, ELISA, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

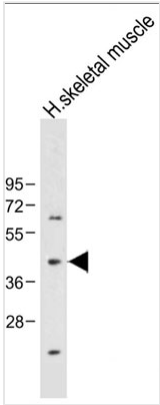
ADIPOR2; Polyclonal Antibody; ADIPOR2 Antibody (Center); Adiponectin receptor protein 2; Progestin and adipoQ receptor family member II; PAQR2; anti-ADIPOR2 antibody

PRODUCT SPECIFICATIONS

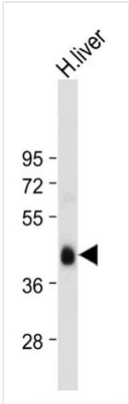
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ADIPOR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 45-72 amino acids from the Central region of human ADIPOR2.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	45-72
Sequence Length	386
Applicable Applications for anti-ADIPOR2 antibody	WB (Western Blot), ELISA, IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	IF: 1:10~50 WB: 1:1000 FC: 1:25
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)
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



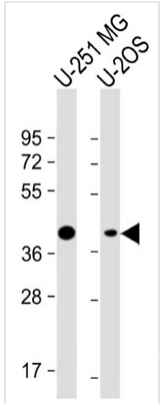
FCM (Flow Cytometry)
Overlay histogram showing U-2 OS cells stained with AAA28654 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AAA28654, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1ug/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.



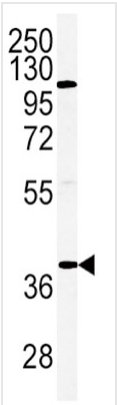
WB (Western Blot)
Anti-ADIPOR2 Antibody (Center) at 1:1000 dilution + Human skeletal muscle tissue lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



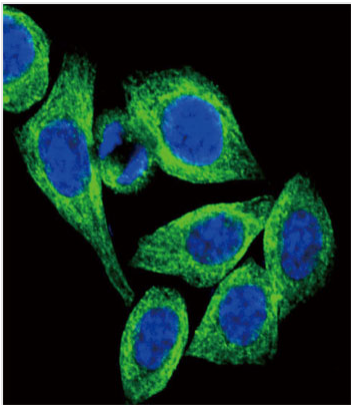
WB (Western Blot)
Anti-ADIPOR2 Antibody (Center) at 1:1000 dilution + Human liver tissue lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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 of ADIPOR2 Antibody (Center) (AAA28654) in HeLa cell line lysates (35ug/lane). ADIPOR2 (arrow) was detected using the purified Pab.



IF (Immunofluorescence)
Confocal immunofluorescent analysis of ADIPOR2 Antibody (Center) (AAA28654) with HeLa cell followed by Alexa Fluor 489-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-ADIPOR2 antibody	Background: 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. Function: Receptor for ADIPOQ, an essential hormone secreted by adipocytes that regulates glucose and lipid metabolism (PubMed: 12802337, PubMed: 25855295). Required for normal body fat and glucose homeostasis. ADIPOQ-binding activates a signaling cascade that leads to increased PPARA 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).
Product Categories/Family for anti-ADIPOR2 antibody	Cardiovascular; Metabolism; Signal transduction
References	Ferguson, J.F., et al. Am. J. Clin. Nutr. 91(3):794-801(2010) Halvatsiotis, I., et al. Cardiovasc Diabetol 9, 10 (2010) Yoshihara, K., et al. J Reprod Med 54 (11-12), 669-674 (2009)

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
UniProt Protein Name	Adiponectin receptor protein 2
UniProt Gene Name	ADIPOR2
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.