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ADIPOR1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8634B

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q96A54
Other Accession	Q91VH1
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22485
Calculated MW	42616
Antigen Region	305-331

Additional Information

Gene ID	51094
Other Names	Adiponectin receptor protein 1, Progestin and adipoQ receptor family member I, ADIPOR1, PAQR1, TESBP1A
Target/Specificity	This ADIPOR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 305-331 amino acids from the C-terminal region of human ADIPOR1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.
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.
Precautions	ADIPOR1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ADIPOR1 (HGNC:24040)
Function	Receptor for ADIPOQ, an essential hormone secreted by adipocytes that

	regulates glucose and lipid metabolism (PubMed:12802337, PubMed:25855295). Required for normal glucose and fat homeostasis and for maintaining a normal body weight. 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. Has high affinity for globular adiponectin and low affinity for full-length adiponectin (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein Note=Localized to the cell membrane and intracellular organelles
Tissue Location	Widely expressed (PubMed:16044242). Highly expressed in heart and skeletal muscle (PubMed:12802337). Expressed at intermediate level in brain, spleen, kidney, liver, placenta, lung and peripheral blood leukocytes (PubMed:12802337). Weakly expressed in colon, thymus and small intestine (PubMed:12802337)

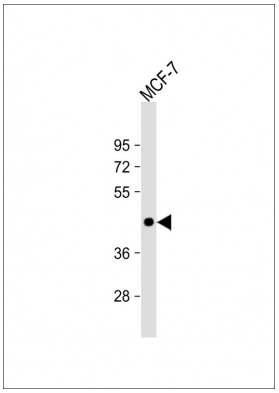
Background

The adiponectin receptors, ADIPOR1 and ADIPOR2, serve as receptors for globular and full-length adiponectin and mediate increased AMPK and PPAR-alpha ligand activities, as well as fatty acid oxidation and glucose uptake by adiponectin.

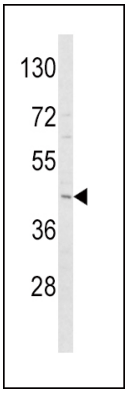
References

Civitarese,A.E., et.al., Diabetologia 47 (5), 816-820 (2004)
Wang,H., et.al., Diabetes 53 (8), 2132-2136 (2004)

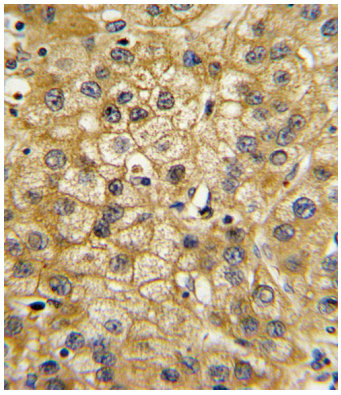
Images



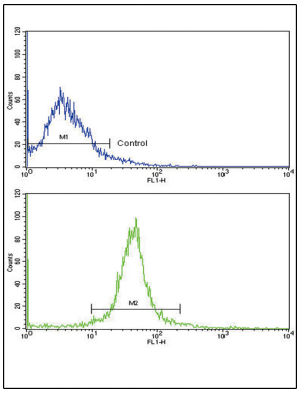
Anti-ADIPOR1 Antibody (C-term) at 1:1000 dilution + MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 43 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of ADIPOR1 Antibody (C-term) (Cat. #AP8634b) in Y79 cell line lysates (35ug/lane). ADIPOR1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma with ADIPOR1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of widr cells using ADIPOR1 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.