

Anti-ADIPOR1 Picoband Antibody

Catalog # ABO12108

Product Information

Application	WB
Primary Accession	Q96A54
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Adiponectin receptor protein 1(ADIPOR1) detection. Tested with WB in Human;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	51094
Other Names	Adiponectin receptor protein 1, Progestin and adipoQ receptor family member I, ADIPOR1, PAQR1 {ECO:0000303 PubMed:16044242}, TESBP1A
Calculated MW	42616
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat
Subcellular Localization	Cell membrane ; Multi-pass membrane protein . Localized to the cell membrane and intracellular organelles. .
Tissue Specificity	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). .
Source	Eukaryota
Protein Name	Adiponectin receptor protein 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ADIPOR1 (51-78aa EQTCPVPQEEEEVRVLTPLQAHHAME), different from the related mouse sequence by two amino acids.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the ADIPOR family.

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

ADIPOR1 is known as Adiponectin receptor protein 1. This gene encodes a protein which acts as a receptor for adiponectin, a hormone secreted by adipocytes which regulates fatty acid catabolism and glucose levels. Binding of adiponectin to the encoded protein results in activation of an AMP-activated kinase signaling pathway which affects levels of fatty acid oxidation and insulin sensitivity. A pseudogene of this gene is located on chromosome 14. Multiple alternatively spliced transcript variants have been found for this gene.

Images



Anti- ADIPOR1 Picoband antibody, ABO12108, Western blottingAll lanes: Anti ADIPOR1 (ABO12108) at 0.5ug/mlLane 1: Rat Thymus Tissue Lysate at 50ugLane 2: Rat Testis Tissue Lysate at 50ugLane 3: MCF-7 Whole Cell Lysate at 40ugLane 4: A549 Whole Cell Lysate at 40ugPredicted bind size: 43KDObserved bind size: 43KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.