Datasheet for ABIN3043520

anti-Adiponectin Receptor 1 antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	Adiponectin Receptor 1 (ADIPOR1)
Binding Specificity:	AA 51-78, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Adiponectin Receptor 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Purpose:	Anti-Adiponectin Receptor 1/ADIPOR1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human ADIPOR1, different from the related mouse sequence by two amino acids.
Sequence:	EQTCPVPQEE EEEVRVLTLP LQAHHAME
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Adiponectin Receptor 1/ADIPOR1 Antibody Picoband® (ABIN3043520). Tested in IF, ICC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	Adiponectin Receptor 1 (ADIPOR1)
Alternative Name:	ADIPOR1 (ADIPOR1 Products)
Background:	Synonyms: Adiponectin receptor protein 1,Progestin and adipoQ receptor family member I,ADIPOR1,PAQR1 , TESBP1A,CGI-45, 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). . 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. Sequence Similarities: Belongs to the ADIPOR family.
Molecular Weight:	43 kDa
UniProt:	Q96A54
Pathways:	AMPK Signaling

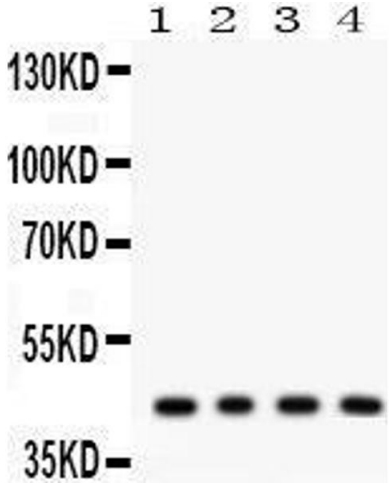
Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Rat Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human 1. "Entrez Gene: ADIPOR1 adiponectin receptor 1" 2. Yamauchi T, Kamon J, Ito Y, Tsuchida A, Yokomizo T, Kita S, Sugiyama T, Miyagishi M, Hara K, Tsunoda M, Murakami K, Ohteki T, Uchida S, Takekawa S, Waki H, Tsuno NH, Shibata Y, Terauchi Y, Froguel P, Tobe K, Koyasu S, Taira K, Kitamura T, Shimizu T, Nagai R, Kadowaki T (June 2003). "Cloning of adiponectin receptors that mediate antidiabetic metabolic effects". Nature 423 (6941): 762-9.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Anti- ADIPOR1 Picoband antibody, Western blotting All lanes: Anti ADIPOR1 at 0.5ug/ml Lane 1: Rat Thymus Tissue Lysate at 50ug Lane 2: Rat Testis Tissue Lysate at 50ug Lane 3: MCF-7 Whole Cell Lysate at 40ug Lane 4: A549 Whole Cell Lysate at 40ug Predicted bind size: 43KD Observed bind size: 43KD