bs-0610R **[Primary Antibody]**

Adiponectin Receptor 1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 51094 **SWISS:** Q96A54

Target: Adiponectin Receptor 1

Immunogen: KLH conjugated synthetic peptide derived from human Adiponectin Receptor 1: 241-270/375. < Cytoplasmic >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Acrp30 is a hormone secreted by adipocytes that acts as an antidiabetic and anti-atherogenic adipokine. Levels of adiponectin in the blood are decreased under conditions of obesity, insulin resistance and type 2 diabetes. Administration of adiponectin causes glucose-lowering effects and ameliorates insulin resistance in mice. Conversely, adiponectin-deficient mice exhibit insulin resistance and diabetes. This insulin-sensitizing effect of adiponectin seems to be mediated by an increase in fatty-acid oxidation through activation of AMP kinase and PPAR- . Cloning of complementary DNAs encoding adiponectin receptors 1 and 2 (AdipoR1 and AdipoR2) have shown that AdipoR1 is abundantly expressed in skeletal muscle, whereas AdipoR2 is predominantly expressed in the liver.

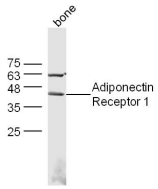
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Chicken, Dog)

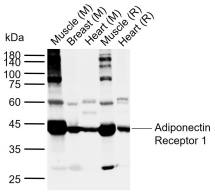
Predicted MW.: 42 kDa

Subcellular Location: Cell membrane

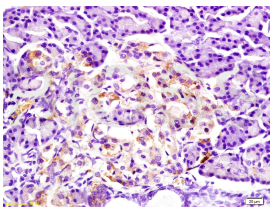
VALIDATION IMAGES



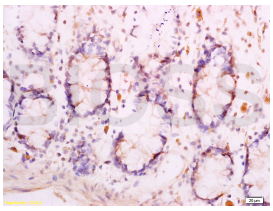
Sample: Muscle(Mouse) Lysate at 40 ug Primary: Anti- Adiponectin Receptor 1 (bs-0610R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42 kD Observed band size: 42 kD



Sample: Lane 1: Mouse Muscle tissue lysates Lane 2: Mouse Breast tissue lysates Lane 3: Mouse Heart tissue lysates Lane 4: Rat Muscle tissue lysates Lane 5: Rat Heart tissue lysates Primary: Anti-Adiponectin Receptor 1 (bs-0610R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42 kDa Observed band size: 42 kDa



Tissue/cell: rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37∩ for 20 min; Incubation: Anti-Adiponectin Receptor 1 Polyclonal Antibody, Unconjugated(bs-0610R) 1:300, overnight at 4∑C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human rectal tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37∩ for 20 min; Incubation: Anti-Adiponectin Receptor 1 Polyclonal Antibody, Unconjugated(bs-0610R) 1:300, overnight at 4∑C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=11.09]** Wang, Yajing, et al. "GRK2-Mediated Desensitization of AdipoR1 in Failing Heart." Circulation (2015): CIRCULATIONAHA-114. IP ;="Mouse". 25696921
- **[IF=6.9]** Ze Peng. et al. 6-Gingerol improves lipid metabolism disorders in skeletal muscle by regulating AdipoR1/AMPK signaling pathway. BIOMED PHARMACOTHER. 2024 Nov;180:117462 IF,WB ;Mouse. 39316973
- **[IF=6.304]** Jia Gao. et al. Nicotine aggravates vascular adiponectin resistance via ubiquitin-mediated adiponectin receptor degradation in diabetic Apolipoprotein E knockout mouse. Cell Death Dis. 2021 May;12(6):1-12 WB,IF ;Human. 34006831
- **[IF=5.74]** Liu, Gai-Zhen, et al. "High glucose/High Lipids impair vascular adiponectin function via inhibition of caveolin-1/AdipoR1 signalsome formation." Free Radical Biology and Medicine (2015). WB ;="Human". 26453924
- **[IF=6.43]** Morad, Vivian, Annelie Abrahamsson, and Charlotta Dabrosin. "Estradiol affects extracellular leptin: adiponectin ratio in human breast tissue in vivo." The Journal of Clinical Endocrinology & Metabolism (2014). IHC ;="Human". 24796929