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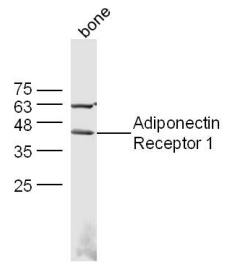
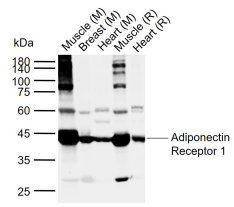
Adiponectin Receptor 1 Rabbit pAb

Catalog Number:	bs-0610R
Target Protein:	Adiponectin Receptor 1
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
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
Entrez Gene:	51094
Swiss Prot:	Q96A54
Source:	KLH conjugated synthetic peptide derived from human Adiponectin Receptor 1: 241-270/375.
Purification:	affinity purified by Protein A
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.

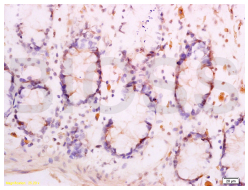
VALIDATION IMAGES



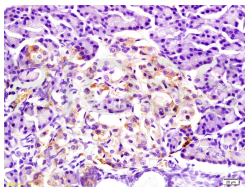
Sample: Muscle(Mouse) Lysate at 40 ug Primary: Anti- Adiponectin Receptor 1 (bs-0610R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42 kD Observed band size: 42 kD



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: 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 Σ C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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 Σ C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

PRODUCT SPECIFIC PUBLICATIONS

[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