



Rabbit Anti-Adiponectin Receptor 1 antibody

SL0610R

Product Name Adiponectin Receptor 1

Chinese Name 脂联素受体 1 抗体

Alias ACDCR1; ADIPO R1; Adiponectin receptor protein 1; ADIPOR 1; ADIPOR1; CGI-45; CGI-45 protein;FLJ25385; PAQR1; Progestin and adipoQ receptor family member I; TESBP1A; ADR1_HUMAN.

Research Area Cell biology immunology Growth factors and hormones Diabetes Endocrinopathy

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Mouse, Rat, (predicted: Chicken, Dog, Rabbit,)

Applications WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 42kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

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

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

[PubMed](#)

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.

Function:

Receptor for globular and full-length adiponectin (APM1), an essential hormone secreted by adipocytes that acts as an antidiabetic. Probably involved in metabolic pathways that regulate lipid metabolism such as fatty acid oxidation. Mediates increased AMPK, PPARA ligand activity, fatty acid oxidation and glucose uptake by adiponectin. Has some high-affinity receptor for globular adiponectin but low-affinity receptor for full-length adiponectin.

Product Detail

Subunit:

May form homo and heteromultimers.

Subcellular Location:

Membrane; Multi-pass membrane protein. Note=Localized to the cell membrane and intracellular organelles.

Tissue Specificity:

Widely expressed. Highly expressed in skeletal muscle. Expressed at intermediate level in brain, heart, spleen, kidney, liver, placenta, lung and peripheral blood leukocytes. Weakly expressed in colon, thymus and small intestine.

Similarity:

Belongs to the ADIPOR family.

SWISS:

Q96A54

Gene ID:

51094

Database links:

[Entrez Gene: 51094](#) Human

[Entrez Gene: 72674](#) Mouse

[Entrez Gene: 289036](#) Rat

[Omim: 607945](#) Human

[SwissProt: Q96A54](#) Human

[SwissProt: Q91VH1](#) Mouse

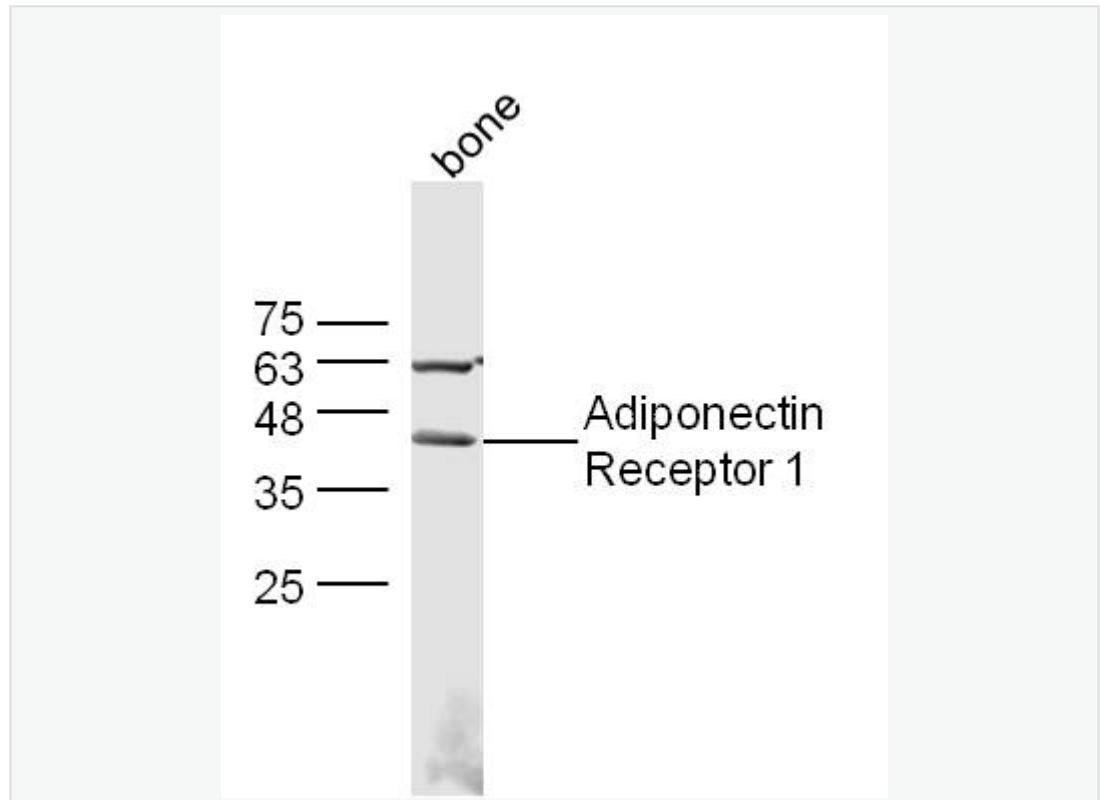
[Unigene: 5298](#) Human

[Unigene: 259976](#) Mouse

脂联素与受体结合后具有增强胰岛素敏感性，抗高血糖，抗动脉粥样硬化等生物学效应，任何增加或减少脂联素及其受体表达的方法都影响这些疾病的发生和发展。

脂联素受体-1(AdipoR1 和 AdipoR2)同属于 PAQR 家族，具有七次 Transmembrane protein 的特有结构，
mol wt:41kDa

**Product
Picture**



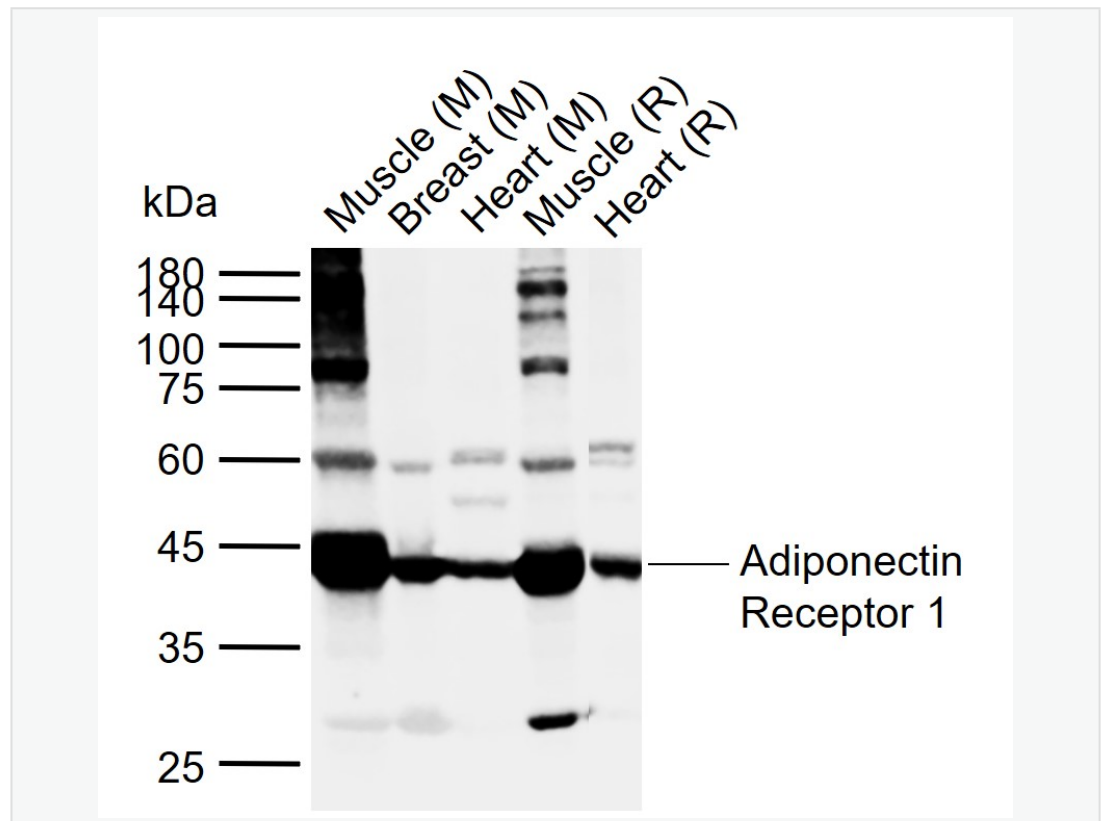
Sample: Muscle(Mouse) Lysate at 40 ug

Primary: Anti- Adiponectin Receptor 1 (SL0610R) 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

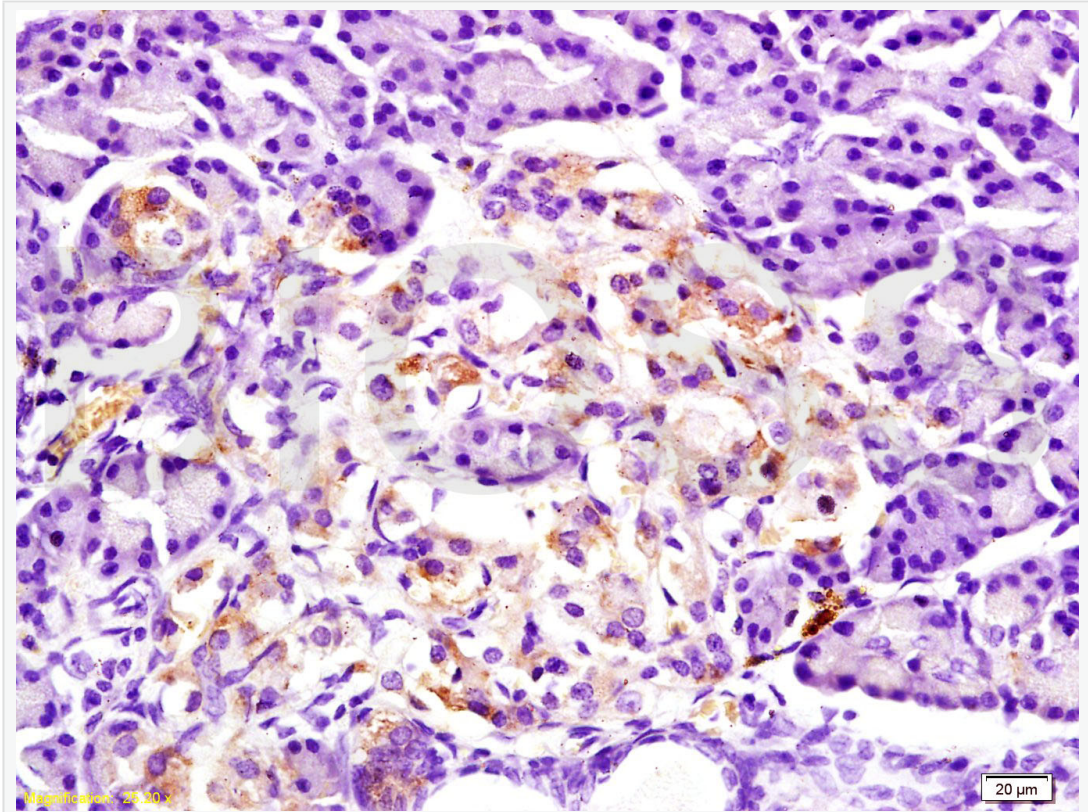
Lane 5: Rat Heart tissue lysates

Primary: Anti-Adiponectin Receptor 1 (SL0610R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kDa

Observed band size: 42 kDa

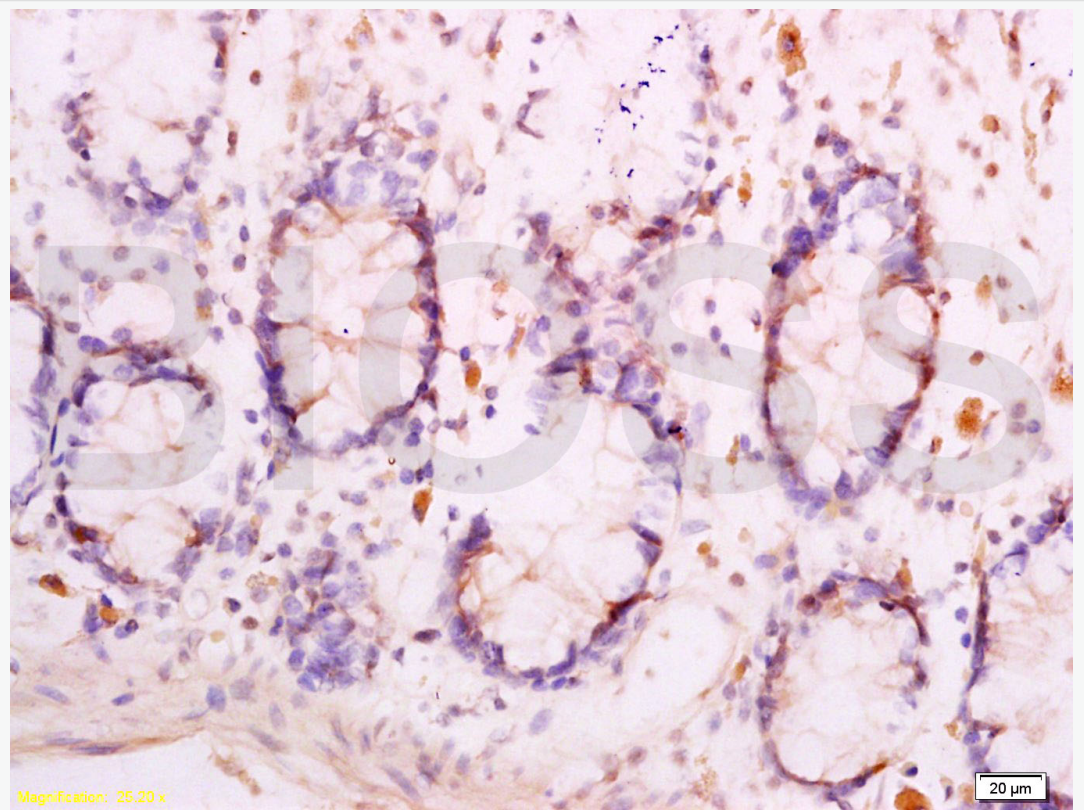


Tissue/cell: rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, 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°C for 20 min;

Incubation: Anti-Adiponectin Receptor 1 Polyclonal Antibody,

Unconjugated(SL0610R) 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 (1M, 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°C for 20 min;

Incubation: Anti-Adiponectin Receptor 1 Polyclonal Antibody,

Unconjugated(SL0610R) 1:300, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining