SunLong Biotech Co.,LTD
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Rabbit Anti-Adiponectin receptor 2 antibody

SL0611R

Product Name	Adiponectin receptor 2
Chinese Name	脂联素受体 2 抗体
Alias	Adipo R2; Progestin and adipoQ receptor family member II; Adipor2; PAQR2; ADR2_HUMAN.
Research Area	Cell biology immunology Growth factors and hormones The cell membrane 受体 Diabetes Endocrinopathy
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, Rat, (predicted: Chicken, Dog, Pig,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1μg /test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	44kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Adiponectin receptor 2: 315-340/386
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℃. 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

Product Detail

The adiponectin receptors, ADIPOR1 (MIM 607945) and ADIPOR2, serve as receptors for globular and full-length adiponectin (MIM 605441) and mediate increased AMPK (see MIM 602739) and PPAR-alpha (PPARA; MIM 170998) ligand activities, as well as fatty acid oxidation and glucose uptake by adiponectin (Yamauchi et al., 2003 [PubMed 12802337]).[supplied by OMIM, Mar 2008]

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 intermediate-affinity receptor activity for both globular and full-length adiponectin.

Subunit:
May form homo and heteromultimers.

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

Tissue Specificity:
Highly expressed in skeletal muscle, liver and placenta. Weakly expressed in brain, heart, colon, spleen, kidney, thymus, small intestine, peripheral blood leukocytes and lung.

Similarity:
Belongs to the ADIPOR family.

SWISS:
Q86V24

Gene ID:
79602

Database links:

Entrez Gene: 79602 Human

Entrez Gene: 68465 Mouse

Entrez Gene: 404694 Pig

Entrez Gene: 312670 Rat

Omim: 607946 Human

SwissProt: Q86V24 Human

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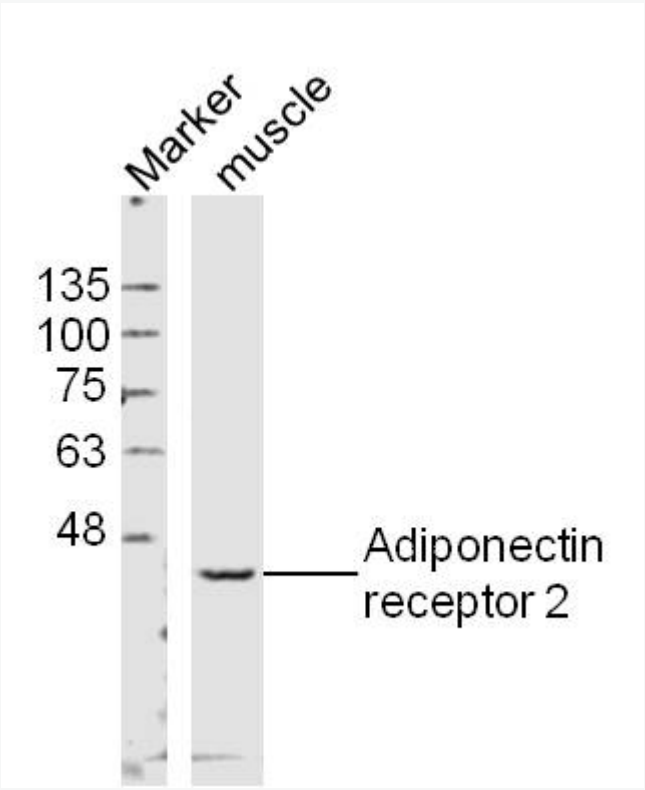
脂联素与受体结合后具有增强胰岛素敏感性，抗高血糖，抗动脉粥样硬化等生物学效应，任何增加或减少脂联素及其受体表达的方法都影响这些疾病的发生和发展。脂联素受体(AdipoR1 和 AdipoR2)同属于 PAQR 家族，具有七次 Transmembrane protein 的特有结构.

Product Picture



Sample: Muscle (Mouse) Lysate at 40 ug

Primary: Anti- Adiponectin Receptor 2 (SL0611R) at 1/300 dilution

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

Predicted band size: 44 kD

Observed band size: 44 kD

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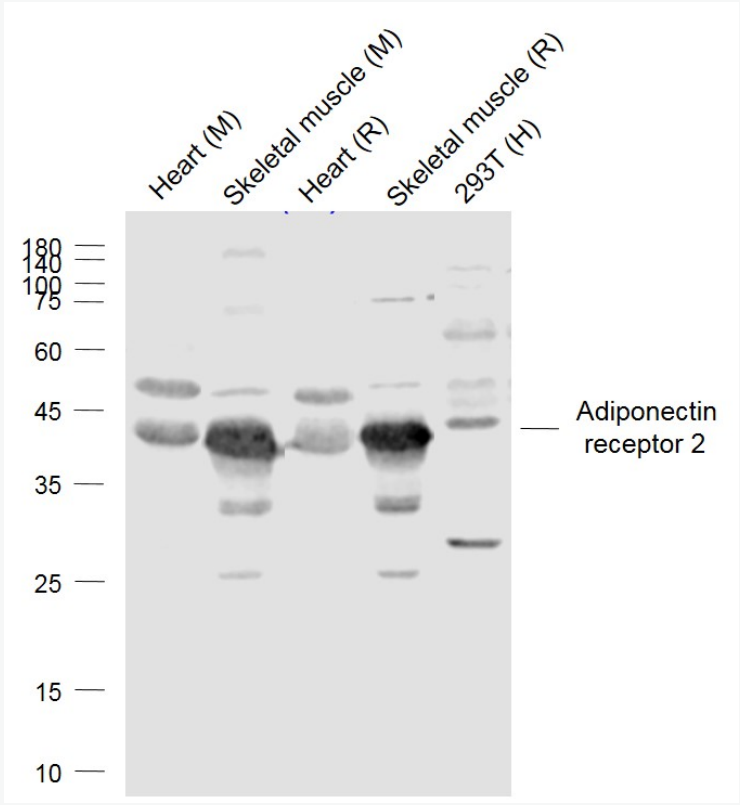

Sample:

Lane 1: Heart (Mouse) Lysate at 40 ug

Lane 2: Skeletal muscle (Mouse) Lysate at 40 ug

Lane 3: Heart (Rat) Lysate at 40 ug

Lane 4: Skeletal muscle (Rat) Lysate at 40 ug

Lane 5: 293T (Human) Cell Lysate at 30 ug

Primary: Anti-Adiponectin receptor 2 (SL0611R) at 1/1000 dilution

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

Predicted band size: 44 kD

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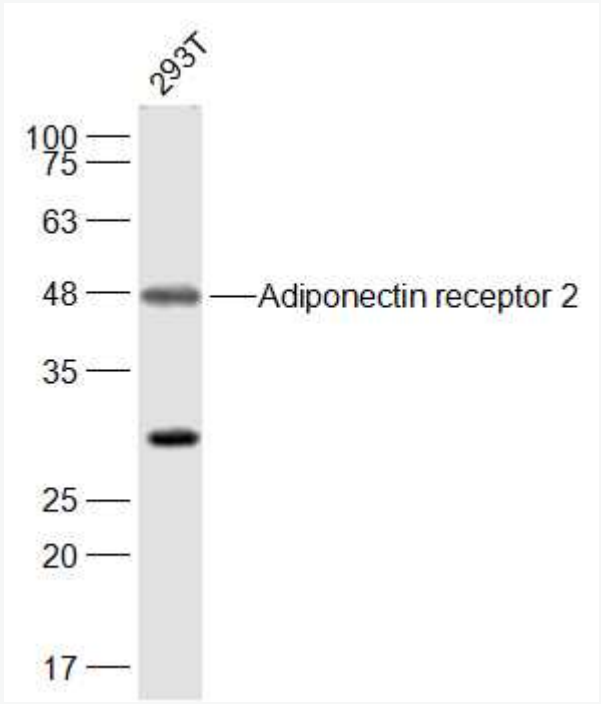
Observed band size: 43 kD



Sample:

293T(Human) Cell Lysate at 30 ug

Primary: Anti-Adiponectin receptor 2 (SL0611R) at 1/1000 dilution

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

Predicted band size: 44 kD

Observed band size: 48 kD

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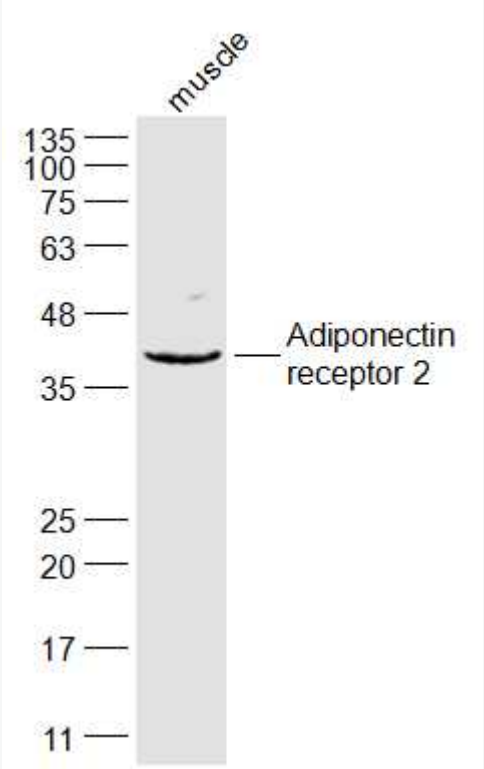

Sample:

muscle (Mouse) Lysate at 40 ug

Primary: Anti-Adiponectin receptor 2 (SL0611R) at 1/300 dilution

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

Predicted band size: 44 kD

Observed band size: 44 kD

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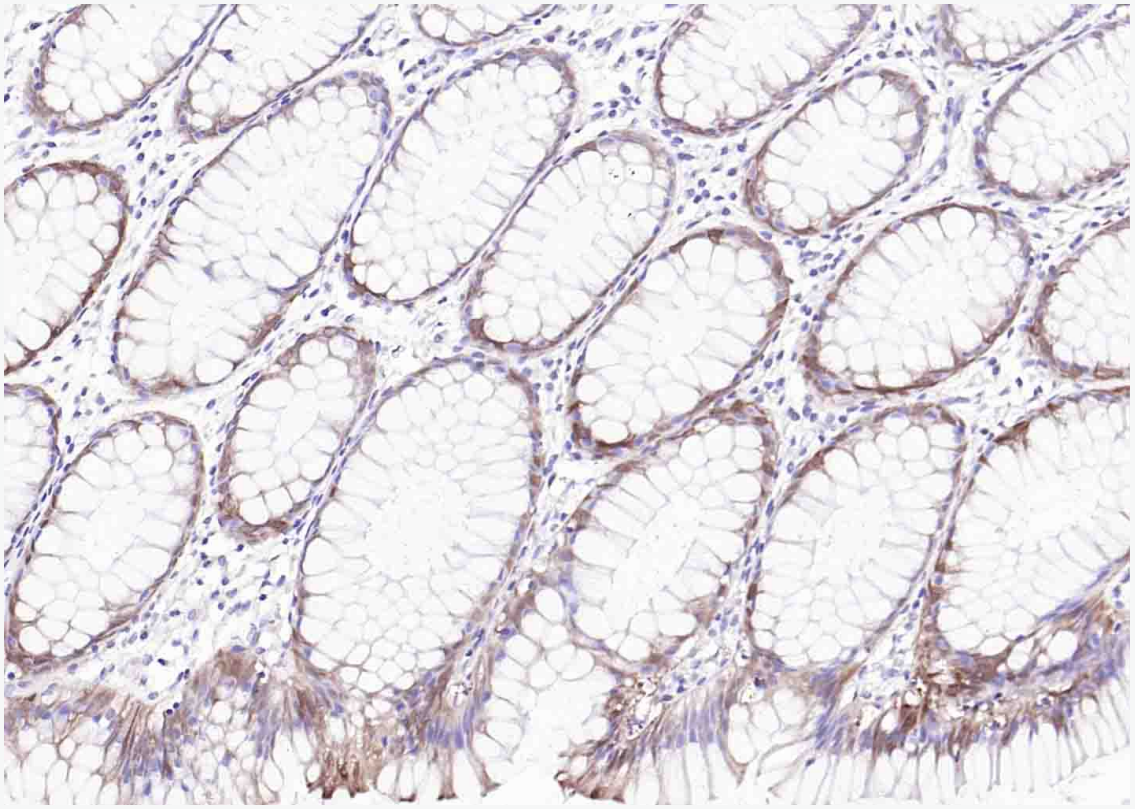

Paraformaldehyde-fixed, paraffin embedded (human colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Adiponectin receptor 2) Polyclonal Antibody, Unconjugated (SL0611R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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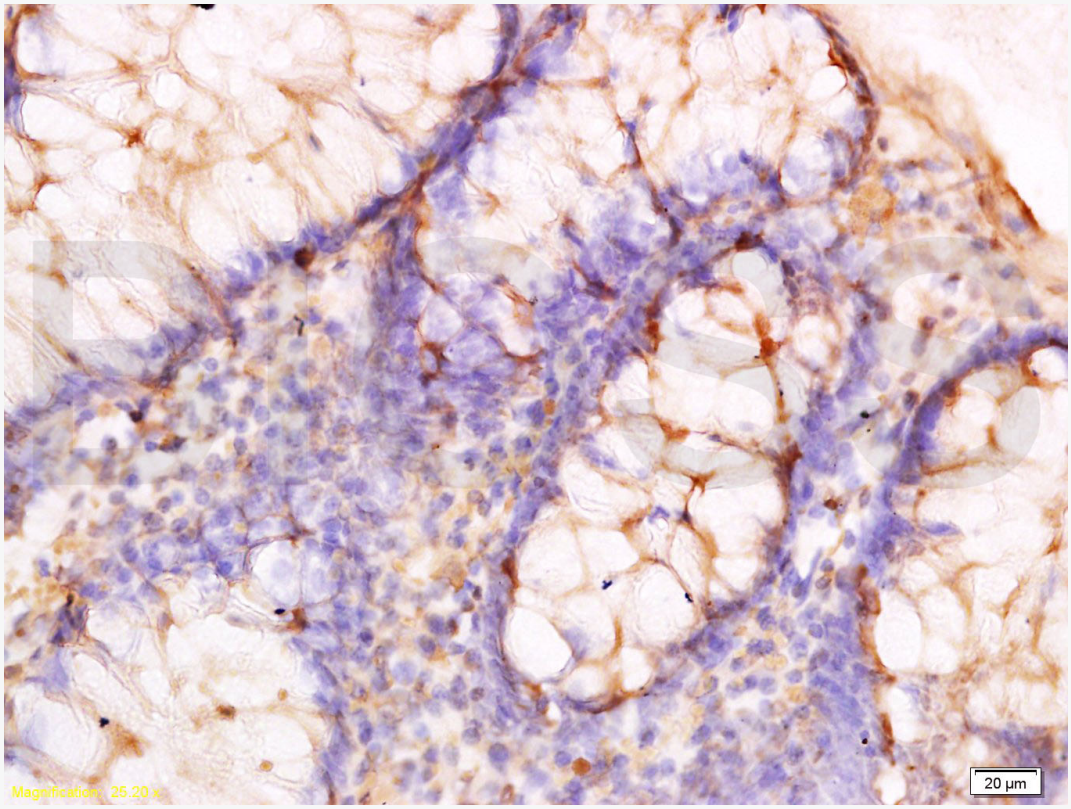

Tissue/cell: human rectal tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-Adiponectin Receptor 2 Polyclonal Antibody, Unconjugated(SL0611R) 1:300, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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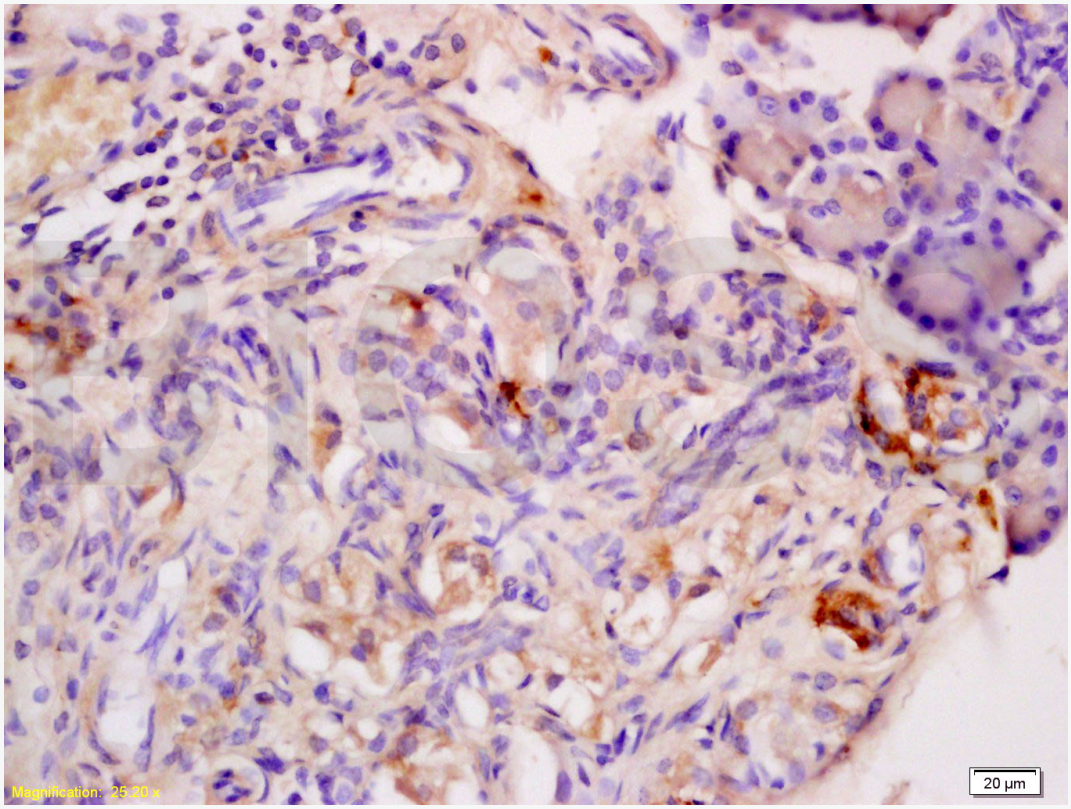
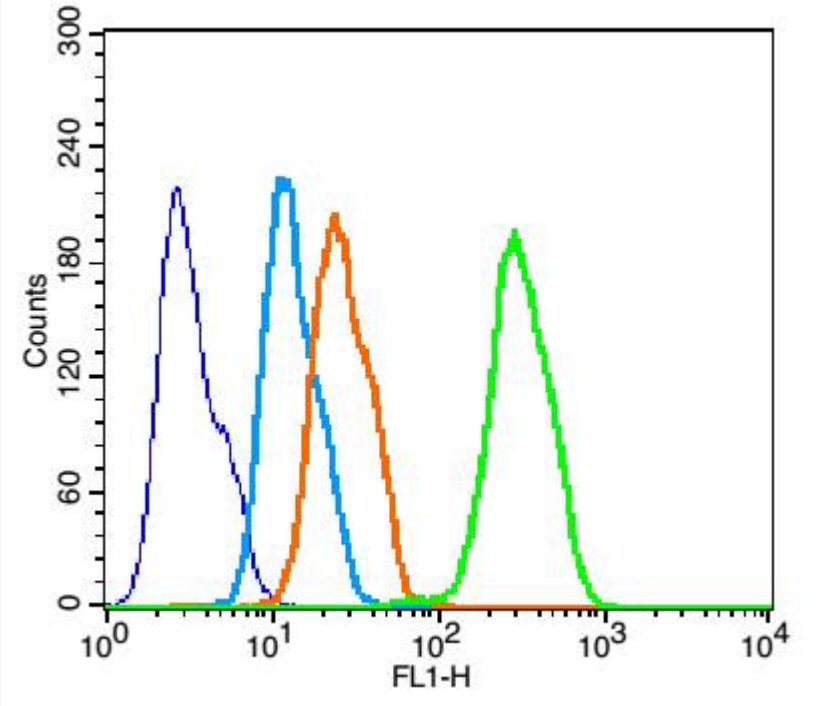


Tissue/cell: rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-Adiponectin Receptor 2 Polyclonal Antibody, Unconjugated(SL0611R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: HepG2(blue).

Primary Antibody:Rabbit Anti-Adiponectin receptor 2 antibody (SL0611R,Green);

Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions;

Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde for 10 min at 37°C. Primary antibody (SL0611R, 0.2μg /1x10^6 cells) were incubated for 30 min at room temperature, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/FITC antibody was added into the blocking buffer mentioned above to react with the primary antibody

at 1/200 dilution for 40 min at room temperature. Acquisition of 20,000 events was performed.