SunLong Biotech Co.,LTD
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Rabbit Anti-ADRB1 antibody

SL0498R

Product Name	ADRB1
Chinese Name	肾上腺素能受体 β1 抗体
Alias	beta 1 Adrenergic Receptor; beta 1 Adrenergic Receptor; ADRB1R; Adrenergic beta 1 receptor; B1AR; Beta 1 adrenoceptor; Beta 1 adrenoreceptor; Beta-1 adrenergic receptor; Beta-1 adrenoceptor; Beta-1 adrenoreceptor; BETA1AR; RHR; ADR B1; ADRB 1; ADRB1; ADRB1_HUMAN; ADRB1R; Adrenergic beta 1 receptor; Adrenoceptor beta 1.
Research Area	Cardiovascular immunology Neurobiology Signal transduction Growth factors and hormones Channel protein The cell membrane 受体
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, Rat, (predicted: Dog, Pig,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug/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	52kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human ADRB1: 181-250/477 <Extracellular>
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

Beta-adrenergic receptors (Beta-1 adrenoreceptor) mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. This receptor binds epinephrine and norepinephrine with approximately equal affinity. Subcellular location cell membrane; Multi-pass membrane protein. Homologous desensitization of the receptor is mediated by its phosphorylation by beta-adrenergic receptor kinase. Belongs to the G-protein coupled receptor 1 family.

Function:
Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. This receptor binds epinephrine and norepinephrine with approximately equal affinity.

Subunit:
Interacts with GOPC, MAGI3 and DLG4.

Subcellular Location:
Cell membrane; Multi-pass membrane protein. Note=Localized at the plasma membrane. Found in the Golgi upon GOPC overexpression.

Product Detail

Post-translational modifications:
Homologous desensitization of the receptor is mediated by its phosphorylation by beta-adrenergic receptor kinase.

Similarity:
Belongs to the G-protein coupled receptor 1 family.
Adrenergic receptor subfamily. ADRB1 sub-subfamily.

SWISS:
P08588

Gene ID:
153

Database links:

Entrez Gene: 153 Human

Entrez Gene: 11554 Mouse

Entrez Gene: 24925 Rat

Omim: 109630 Human

SwissProt: P08588 Human

SwissProt: P34971 Mouse

SwissProt: P18090 Rat

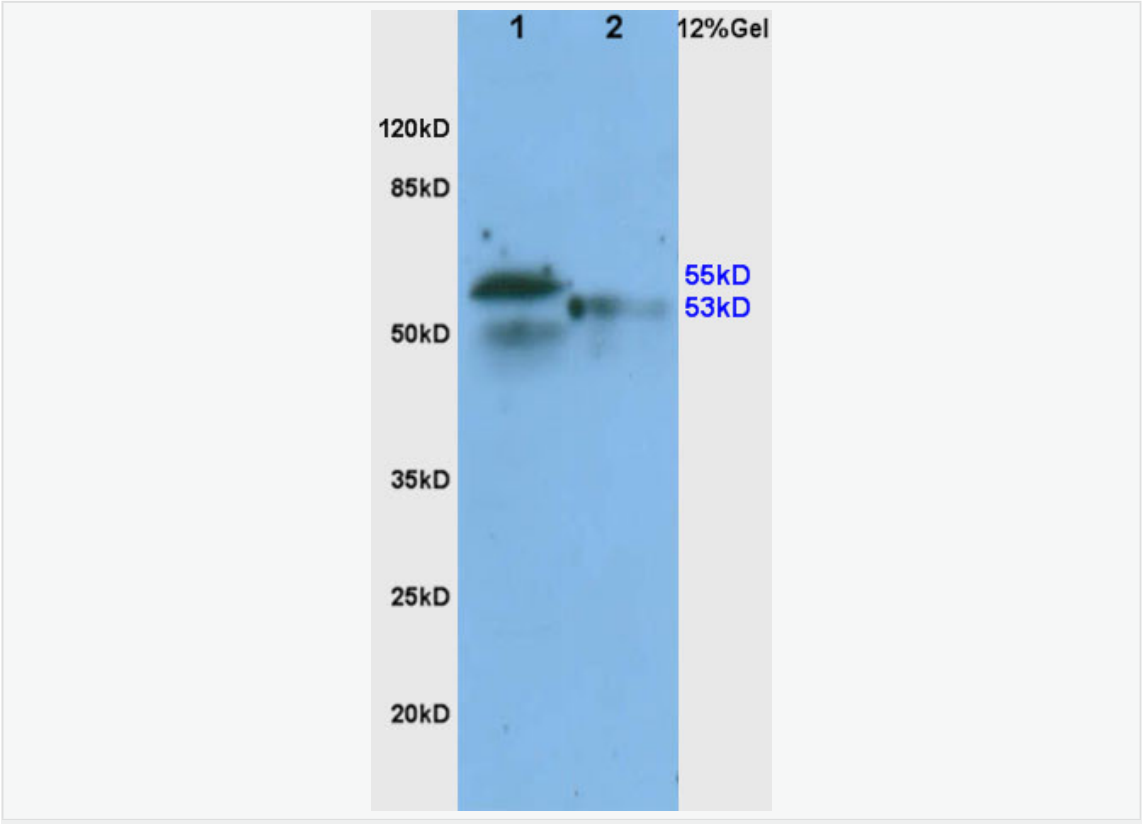
Unigene: 99913 Human

Unigene: 46797 Mouse

Unigene: 87064 Rat

β1 肾上腺素能受体（Beta-adrenergic Receptor-1 ）在接受交感神经节后纤维支配的各种器官中存在着与肾上腺素、去甲肾上腺素起反应的受体，称为肾上腺素能受体。其化学性质尚不清楚。用对药物反应的方法，肾上腺素能受体可分为 α 及 β 两个类型。肾上腺素对 α、β 及 D 型受体均起作用，而去甲肾上腺素主要对 α 型起作用。β1AR 所引起的反应为支气管扩张、血管扩张等，肾上腺素受体可被 β13，4－dichloroisoproterenol（D－CI）等阻断药物所抑制。

Product Picture



Sample:

Heart (Mouse) Lysate at 30 ug

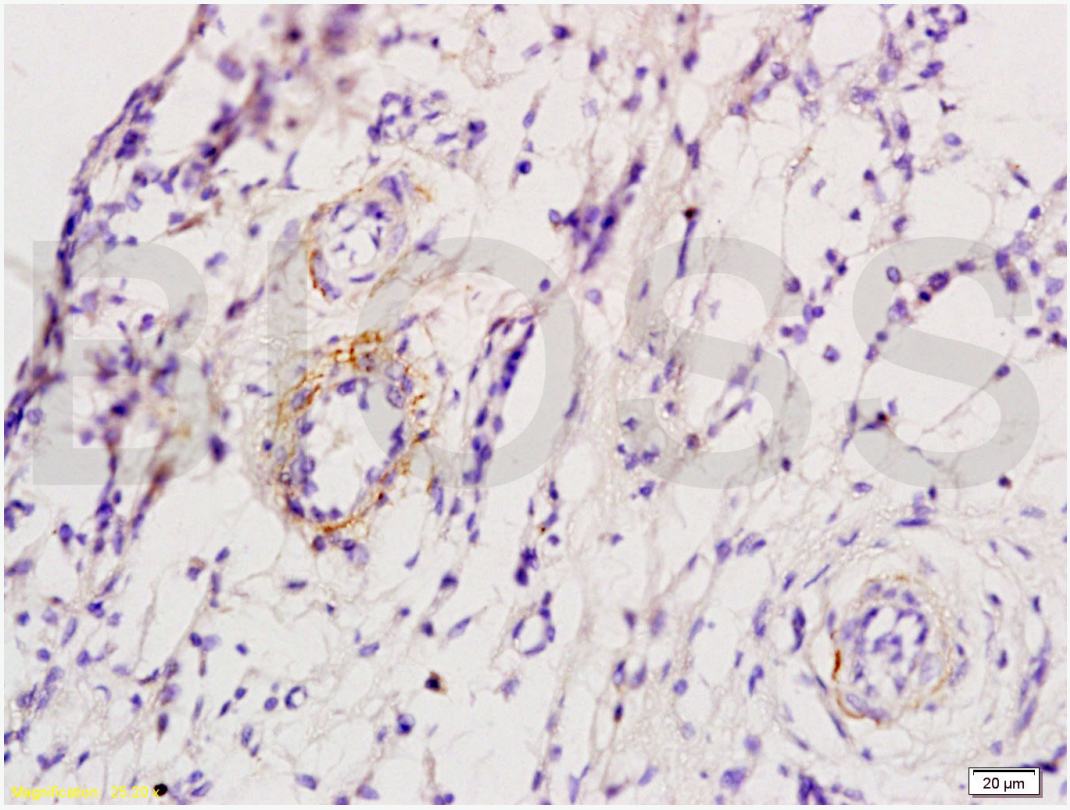
Heart (Rat) Lysate at 30 ug

Primary: Anti- ADRB1(SL0498R) at 1/200 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL0295G-HRP) at 1/3000 dilution

Predicted band size: 52 kD

Observed band size: 55 kD

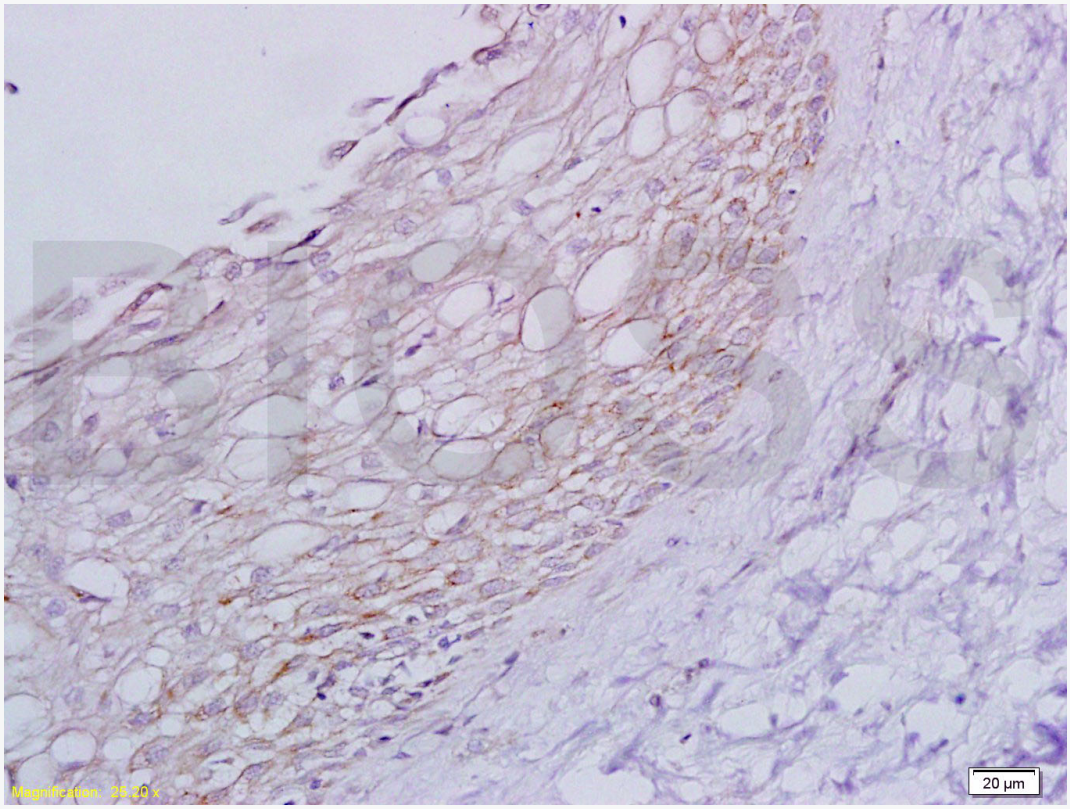


Tissue/cell: skin of rat foot; 4% Paraformaldehyde-fixed and paraffin-embedded;

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-ADRB1 Polyclonal Antibody, Unconjugated(SL0498R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat ovary 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-ADRB1 Polyclonal Antibody, Unconjugated(SL0498R) 1:200,

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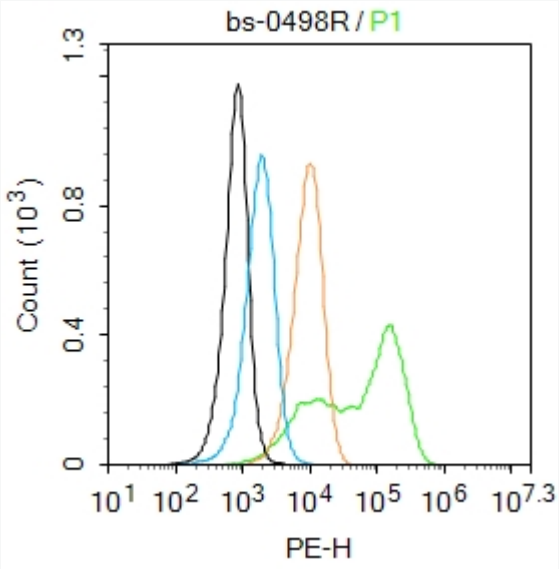


Blank control:U937.

Primary Antibody (green line): Rabbit Anti- antibody (SL3152R)

Dilution: 2µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

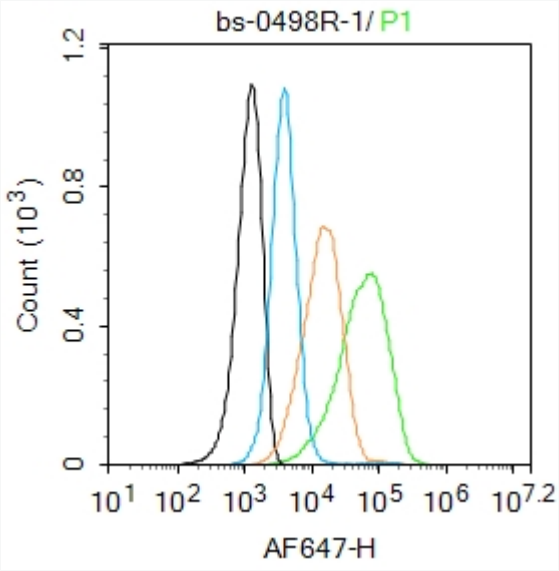
Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 1µg /test.

Protocol

The cells wereincubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

Acquisition of 20,000 events was performed.



Blank control:U937.

Primary Antibody (green line): Rabbit Anti-ADRB1 antibody (SL0498R)

Dilution: 1μg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-AF647

Dilution: 1μg /test.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

Acquisition of 20,000 events was performed.

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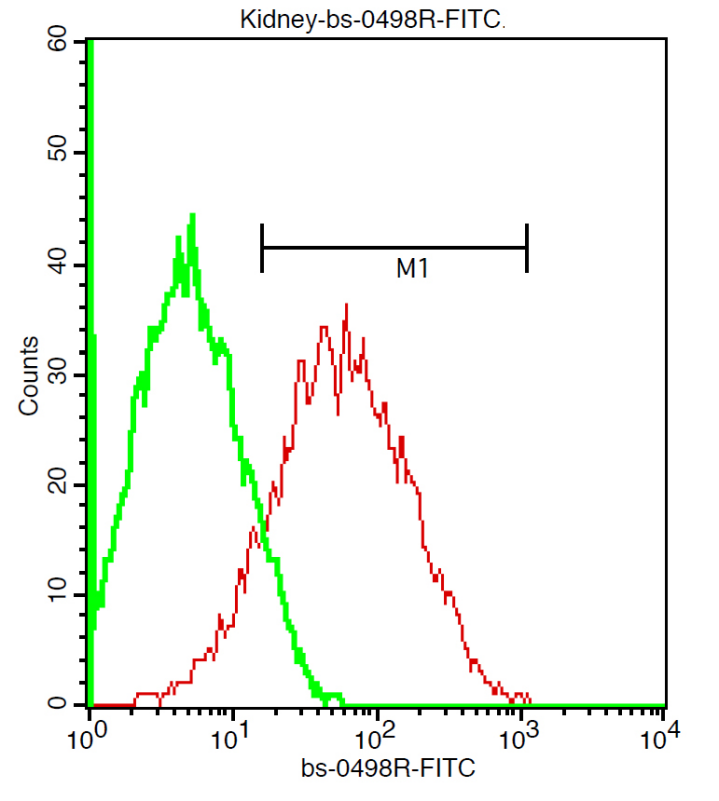

Tissue/cell: mouse kidney cell;

Incubation:

Red line: Anti-ADRB1 Polyclonal Antibody, FITC conjugated(SL0498R-FITC) 1:200, 40 minutes at 37°C.

Green line: Isotype Control(SL0295P-FITC, rabbit IgG/FITC) 1:200, 40 minutes at 37°C.