bs-0498R **[Primary Antibody]**

ADRB1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 153 **SWISS:** P08588

Target: ADRB1

Immunogen: KLH conjugated synthetic peptide derived from human ADRB1: 181-250/477. < Extracellular >

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: 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.

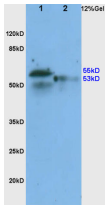
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)

Reactivity: Human, Mouse, Rat (predicted: Pig, Dog)

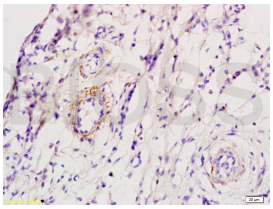
Predicted MW.: 52 kDa

Subcellular Location: Cell membrane

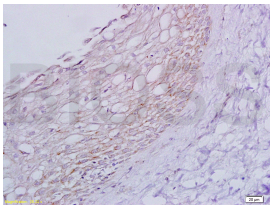
VALIDATION IMAGES



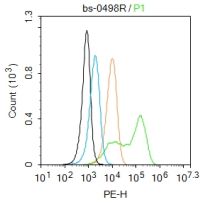
Sample: Heart (Mouse) Lysate at 30 ug Heart (Rat) Lysate at 30 ug Primary: Anti-ADRB1(bs-0498R) at 1/200 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/3000 dilution Predicted band size: 52 kD Observed band size: 55 kD



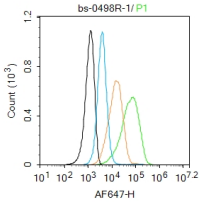
Tissue/cell: skin of rat foot; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-ADRB1 Polyclonal Antibody, Unconjugated(bs-0498R) 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 (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°C for 20 min; Incubation: Anti-ADRB1 Polyclonal Antibody, Unconjugated(bs-0498R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:U937. Primary Antibody (green line): Rabbit Anti- antibody (bs-0498R) 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



Blank control:U937. Primary Antibody (green line): Rabbit Anti-ADRB1 antibody (bs-0498R) 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

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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SELECTED CITATIONS

- **[IF=6.208]** Lina S. Farhoumand. et al. Blockade of ß-Adrenergic Receptors by Nebivolol Enables Tumor Control Potential for Uveal Melanoma in 3D Tumor Spheroids and 2D Cultures. INT J MOL SCI. 2023 Jan;24(6):5894 FCM ;Human. 36982966
- **[IF=4.831]** Liu Z et al. Over-expression of microRNA-145 drives alterations in β-adrenergic signaling and attenuates cardiac remodeling in heart failure post myocardial infarction. Aging (Albany NY). 2020 Jun 18;12(12):11603-11622. WB ;Rat. 32554856
- **[IF=3.727]** Yue Wang. et al. Mirabegron Ameliorated Atherosclerosis of ApoE－/－ Mice in Chronic Intermittent Hypoxia but Not in Normoxia. 2021 Jun 21 IHC ;Mouse. 34152510
- **[IF=2.71]** Bornholz, Beatrice, et al. "A standardised FACS assay based on native, receptor transfected cells for the clinical diagnosis and monitoring of β1-adrenergic receptor autoantibodies in human heart disease." Clinical Chemistry and Laboratory Medicine (CCLM). Other ;Human. 26408610
- **[IF=2.5]** Jinyao Liuet al. Alcohol consumption combined with dietary low-carbohydrate/high-protein intake increased the left ventricular systolic dysfunction risk and lethal ventricular arrhythmia susceptibility in apolipoprotein E/low-density lipoprotein receptor double-knockout mice. Alcohol . 2020 Dec;89:63-74. IHC ;mouse. 32702503