
ADRB1 Rabbit pAb, PE conjugated

Catalog Number: bs-0498R-PE

Target Protein: ADRB1

Concentration: 1mg/ml

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: Flow-Cyt (2ug/Test), IF (1:100-500)

Excitation spectrum: 496nm,564nm

Emission spectrum: 578nm

Not yet tested in other applications.

Optimal working dilutions must be determined by the end user.

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

Entrez Gene: 153

Swiss Prot: P08588

Source: KLH conjugated synthetic peptide derived from human ADRB1: 181-250/477.

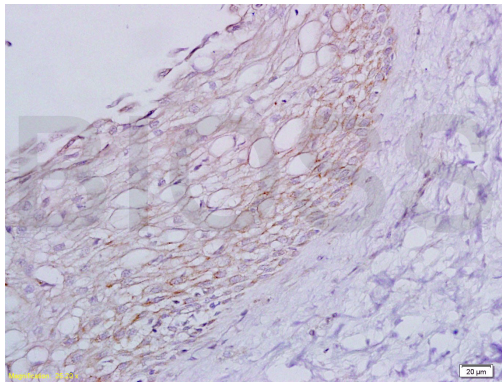
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

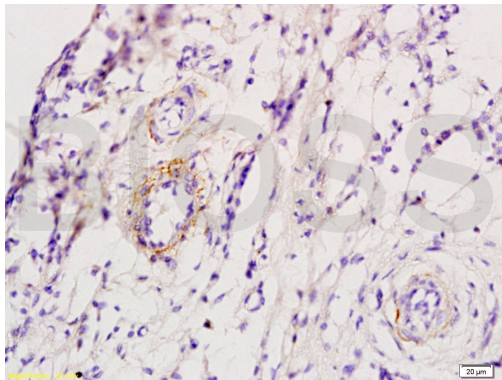
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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.

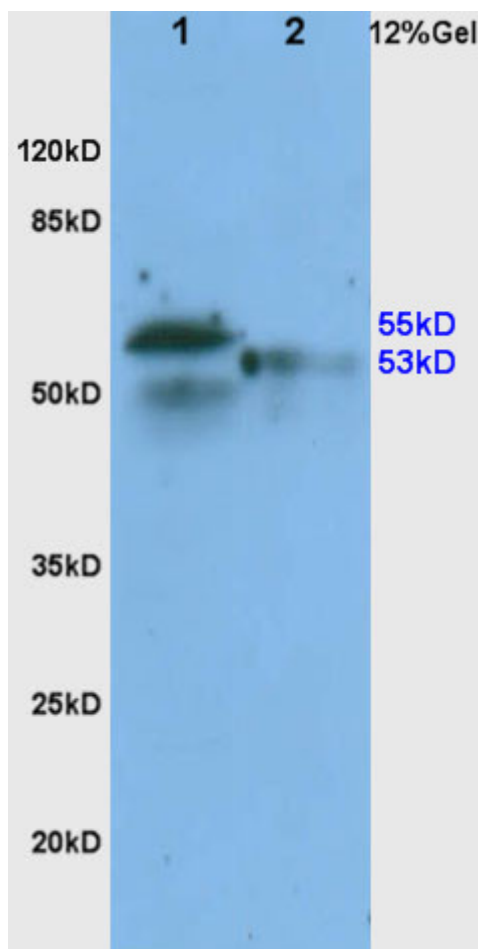
VALIDATION IMAGES



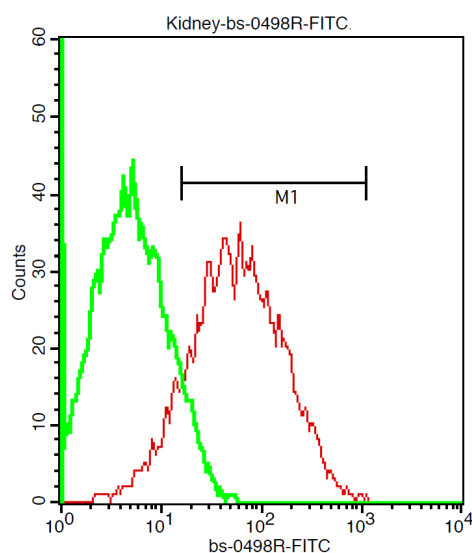
Tissue/cell: rat ovary tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
 Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
 Incubation: Anti-ADRB1 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



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



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

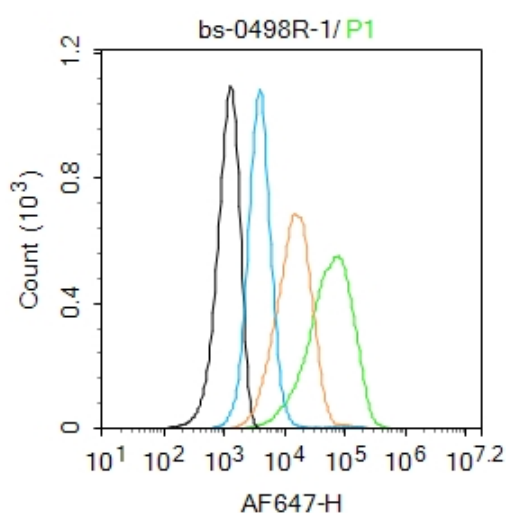


Tissue/cell: mouse kidney cell;

Incubation:

Red line: Anti-ADRB1 Polyclonal Antibody, FITC conjugated(bs-0498R-FITC) 1:200, 40 minutes at 37°C.

Green line: Isotype Control(bs-0295P-FITC, rabbit IgG/FITC) 1:200, 40 minutes at 37°C.



Blank control:U937.

Primary Antibody (green line): Rabbit Anti-ADRB1 antibody (bs-0498R)

Dilution: 1µg /10⁶ cells;

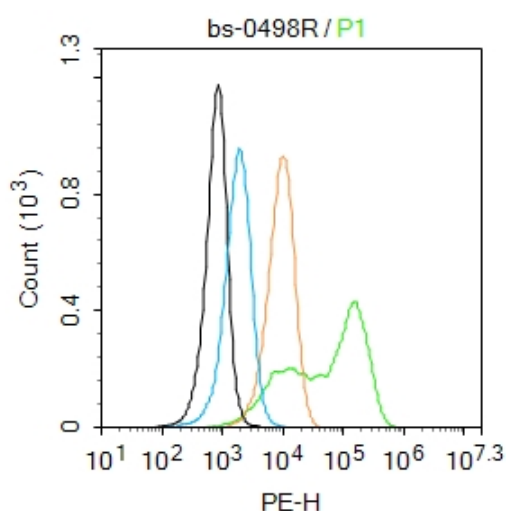
Isotype Control Antibody (orange line): Rabbit IgG .

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.



Blank control:U937.

Primary Antibody (green line): Rabbit Anti- antibody (bs-3152R)

Dilution: 2µg /10⁶ 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.

PRODUCT SPECIFIC PUBLICATIONS

[IF=64.8] Globig Anna-Maria. et al. The β 1-adrenergic receptor links sympathetic nerves to T cell exhaustion. NATURE. 2023 Sep;;1-10 IF ; Mouse . 37731001

[IF=7.3] Camille H. Bourcier. et al. β 1-adrenergic blockers preserve neuromuscular function by inhibiting the production of extracellular traps during systemic inflammation in mice. FRONT IMMUNOL. 2023; 14: 1228374 FC ; Mouse . 37809074