SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-PAFR/PAF Receptor antibody

Catalog Number: SL1478R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	PAFR/PAF Receptor
Immunogen:	KLH conjugated synthetic peptide derived from human PAFR: 231-342/342
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℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
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.
Reactivity:	Human, Mouse, Rat, (predicted: Chicken, Dog, Cow, Rabbit)
Predicted MW.:	38kDa
Subcellular Location:	The cell membrane
Background:	The PAF receptor binds platelet-activating factor (PAF) and is thought to mediate its action via a G protein that activates a phosphatidylinositol-calcium second messenger system. PAF is a chemotactic phospholipid mediator that possesses potent inflammatory, smooth-muscle contractile and hypotensive activity. It has been implicated as a mediator in diverse pathologic processes, such as allergy, asthma, septic shock, arterial thrombosis, and inflammatory processes. The PAF receptor is induced by granulocyte macrophage colony-stimulating factor (GM-CSF), interleukin-5 and n-butyrate. A diverse range of compounds act as PAF receptor antagonists; these may be useful pharmacologically. **Function:** Receptor for platelet activating factor, a chemotactic phospholipid

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	mediator that possesses potent inflammatory, smooth-muscle contractile and hypotensive activity. Seems to mediate its action via a G protein that activates a phosphatidylinositol-calcium second messenger system. **Subunit:** Interacts with ARRB1. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. **Tissue Specificity:** Expressed in the placenta, lung, left and right heart ventricles, heart atrium, leukocytes and differentiated HL-60 granulocytes. **Similarity:** Belongs to the G-protein coupled receptor 1 family. **Database links:** **Entrez Gene:** 5724 Human **Entrez Gene:** 19204 Mouse **Entrez Gene:** 58949 Rat Omim: 173393 Human **SwissProt:** P25105 Human **SwissProt:** Q62035 Mouse **SwissProt:** Q9XSD4 Pig **SwissProt:** P46002 Rat **SwissProt:** P35366 Rhesus monkey **Unigene:** 433540 Human **Unigene:** 725944 Human **Unigene:** 89389 Mouse **Unigene:** 10137 Rat

[VALIDATION IMAGES]

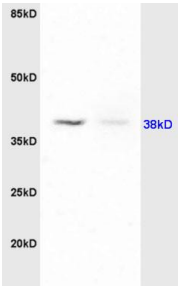


Figure 1. Sample: Lane1: Lung(Rat) Lysate at 30 ug Lane2: Brain(Rat) Lysate at 30 ug Primary: Anti-PTAFR (SL1478R) at 1:200 dilution; Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL0295G-HRP) at 1: 3000 dilution; Predicted band size: 38kD Observed band size: 38kD

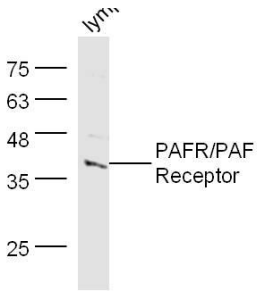


Figure 2. Sample: Lymph (Mouse) Lysate at 30 ug Primary: Anti- RAFR/PAF (SL1478R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/10000 dilution Predicted band size: 38 kD Observed band size: 38 kD

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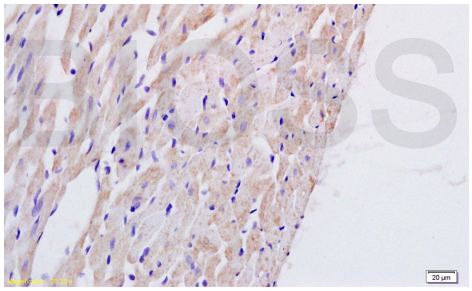


Figure 3. Tissue/cell: rat heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PTAFR Polyclonal Antibody, Unconjugated(SL1478R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

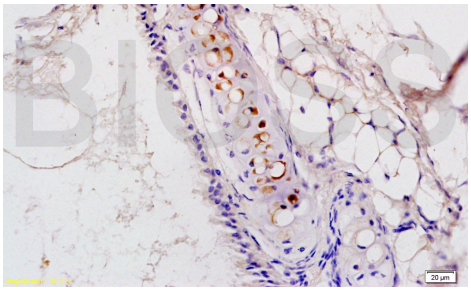


Figure 4. Tissue/cell: rat lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PTAFR Polyclonal Antibody, Unconjugated(SL1478R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

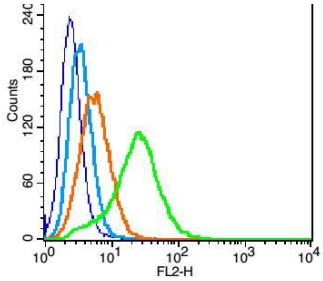


Figure 5. Blank control: 293T cells(blue). Primary Antibody:Rabbit Anti-PAFR/PAF antibody(SL1478R), Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange),used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA. Protocol The cells were fixed with 2% paraformaldehyde (10 min). Primary antibody (SL1478R, 1μg /1x10^6 cells) were incubated for 30 min on the ice, 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/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed

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