SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Prostaglandin E Receptor EP1 antibody

Catalog Number: SL6316R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Prostaglandin E Receptor EP1
Immunogen:	KLH conjugated synthetic peptide derived from human Prostaglandin E Receptor EP1: 61-160/402 <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℃. 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=1ug/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, Rat, (predicted: Human, Dog)
Predicted MW.:	42kDa
Subcellular Location:	The cell membrane
Background:	PTGER1 is a subtype 1 receptor for prostaglandin E2 (PGE2). This receptor is coupled to the phosphatidylinositol-calcium second messenger system by G(q) proteins. PTGER1 may be an important modulator of renal function and is implicated in the smooth muscle contractile response to PGE2 in various tissues. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. **Tissue Specificity:** Abundant in kidney. Lower level expression in lung, skeletal muscle and spleen, lowest expression in testis and not detected in liver brain and heart. **Similarity:** Belongs to the G-protein coupled receptor 1 family.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Database links: **Entrez Gene:** 5731 Human **Entrez Gene:** 19216 Mouse **Entrez Gene:** 25637 Rat Omim: 176802 Human **SwissProt:** P34995 Human **SwissProt:** P35375 Mouse **SwissProt:** P70597 Rat **Unigene:** 159360 Human **Unigene:** 474430 Mouse **Unigene:** 11423 Rat

[VALIDATION IMAGES]

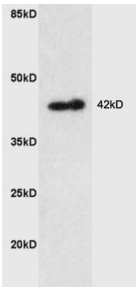


Figure 1. Sample: Brain (Rat) Lysate at 40 ug Primary: Anti-Prostaglandin E Receptor EP1 (SL6316R) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL0295G-HRP) at 1/5000 dilution Predicted band size: 42 kD Observed band size: 42 kD

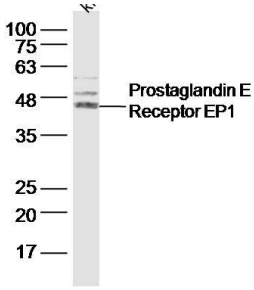


Figure 2. Sample: Kidney (Mouse) Lysate at 40 ug Primary: Anti-Prostaglandin E Receptor EP1 (SL6316R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42 kD Observed band size: 45 kD

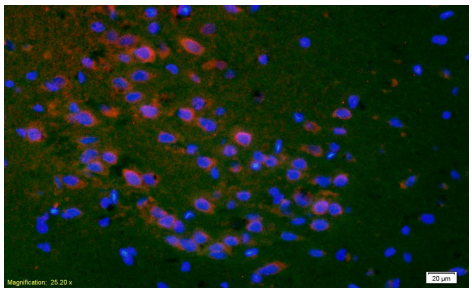


Figure 3. Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PTGER1 Polyclonal Antibody, Unconjugated(SL6316R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

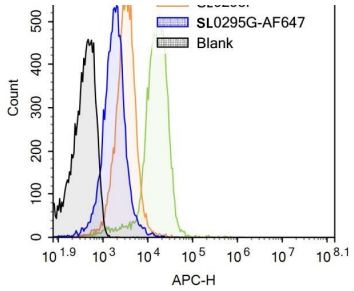


Figure 4. Blank control (Black line): Mouse blood (Black). Primary Antibody (green line): Rabbit Anti-Prostaglandin E Receptor EP1 antibody (SL6316R) Dilution: 3µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-BF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then 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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