bs-2880R **[Primary Antibody]**

LPA1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1902 **SWISS:** Q92633

Target: LPA1

Immunogen: KLH conjugated synthetic peptide derived from human EDG2/LPA1: 281-364/364. < Cytoplasmic >

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: EDG2 belongs to a family of G-protein coupled receptors whose ligands are lysophospholipids. There are eight known members of the EDG receptor family and they are implicated in mediating growth-related effects such as induction of cellular proliferation, alterations in differentiation and survival, and suppression of apoptosis. They also evoke cellular effector functions that are dependent on cytoskeletal responses such as contraction, secretion, adhesion and chemotaxis. EDG receptors are developmentally regulated and differ in tissue distribution. They couple to multiple types of G proteins to signal through ras and MAP kinase, rho, phospholipase C, and several proteins not used within 12 hours. Edg2 has been reported in most human tissues, and is especially abundant in brain cortical regions. ESTs have been isolated from bone, brain, breast, connective tissue, embryo, heart/melanocyte/uterus, lung, prostate and uterus libraries.

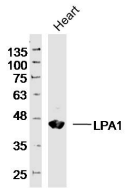
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Sheep, Cow, Dog)

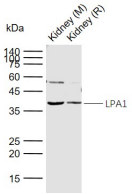
Predicted MW.: 41 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Sample:Heart (Mouse)Lysate at 40 ug Primary: Anti-LPA1(bs-2880R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 41 kD Observed band size: 44 kD



Sample: Lane 1: Mouse Kidney tissue lysates Lane 2: Rat Kidney tissue lysates Primary: Anti-LPA1 (bs-2880R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 41 kDa Observed band size: 41 kDa

SELECTED CITATIONS

- **[IF=5.2]** Shiyin Li. et al. Integrated Analysis of DNA Methylome and Transcriptome Reveals Regulatory Mechanism in the Longissimus Dorsi of Duroc Pigs. CELLS-BASEL. 2025 Jan;14(11):786 WB ;Mouse. 40497962
- **[IF=4.255]** Chen L et al. Lysophosphatidic acid decreased macrophage foam cell migration correlated with downregulation of fucosyltransferase 8 via HNF1α. Atherosclerosis. 2019 Sep 11;290:19-30. WB ;Mouse&Human. 31557675
- **[IF=2.47]** Chen, Linmu, et al. "Lysophosphatidic acid individually induces macrophage-derived foam cell formation by

blocking the expression of SRBI." Biochemical and Biophysical Research Communications (2017). WB ;="Mouse". 28765047