SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-LPA2 antibody

SL10368R

Product Name:	LPA2
Chinese Name:	溶血磷脂酸受体蛋白2抗体
Alias:	Endothelial Cell Differentiation Gene 4; Endothelial differentiation lysophosphatidic acid G protein coupled receptor 4; IPA2; LPA receptor 2; LPA receptor EDG4; LPA2; LPAR2; Lysophosphatidic acid receptor Edg4; Edg4; LPAR2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/TestICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	39kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human LPA2:1-100/351<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a member of family I of the G protein-coupled receptors, as well as the EDG family of proteins. This protein functions as a lysophosphatidic acid (LPA) receptor and contributes to Ca2+ mobilization, a critical cellular response to LPA in cells, through association with Gi and Gq proteins. An alternative splice variant has been described but its full length sequence has not been determined. [provided by RefSeq, Jul

2008]

Function:
Receptor for lysophosphatidic acid (LPA), a mediator of diverse cellular activities. Seems to be coupled to the G(i)/G(o), G(12)/G(13), and G(q) families of heteromeric G proteins. Plays a key role in phospholipase C-beta (PLC-beta) signaling pathway. Stimulates phospholipase C (PLC) activity in a manner that is independent of RALA activation.

Subunit:
Interacts with SLC9A3R2/NHERF2, MAGI3 and PLCB3. Interacts with RALA and ADRBK1.

Subcellular Location:
Cell surface. Cell membrane; Multi-pass membrane protein. Note=Prior to LPA treatment found predominantly at the cell surface but in the presence of LPA co-localizes with RALA in the endocytic vesicles.

Tissue Specificity:
Expressed most abundantly in testes and peripheral blood leukocytes with less expression in pancreas, spleen, thymus and prostate. Little or no expression in heart, brain, placenta, lung, liver, skeletal muscle, kidney, ovary, small intestine, or colon.

Similarity:
Belongs to the G-protein coupled receptor 1 family.

SWISS:
Q9HBW0

Gene ID:
9170

Database links:

Entrez Gene: 9170Human

Entrez Gene: 53978Mouse

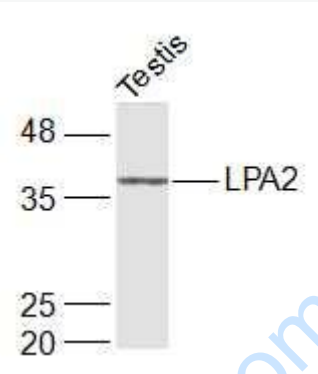
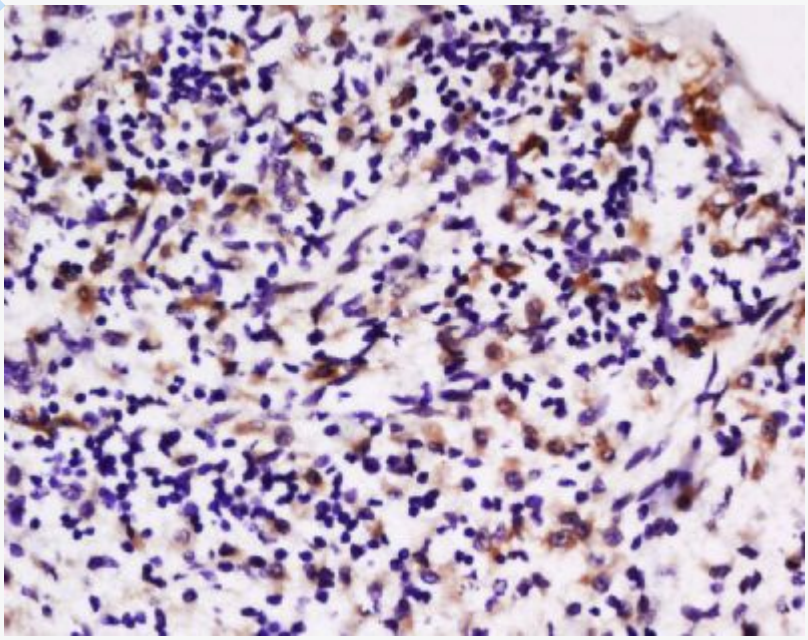
Omim: 605110Human

SwissProt: Q9HBW0Human

SwissProt: Q9JL06Mouse

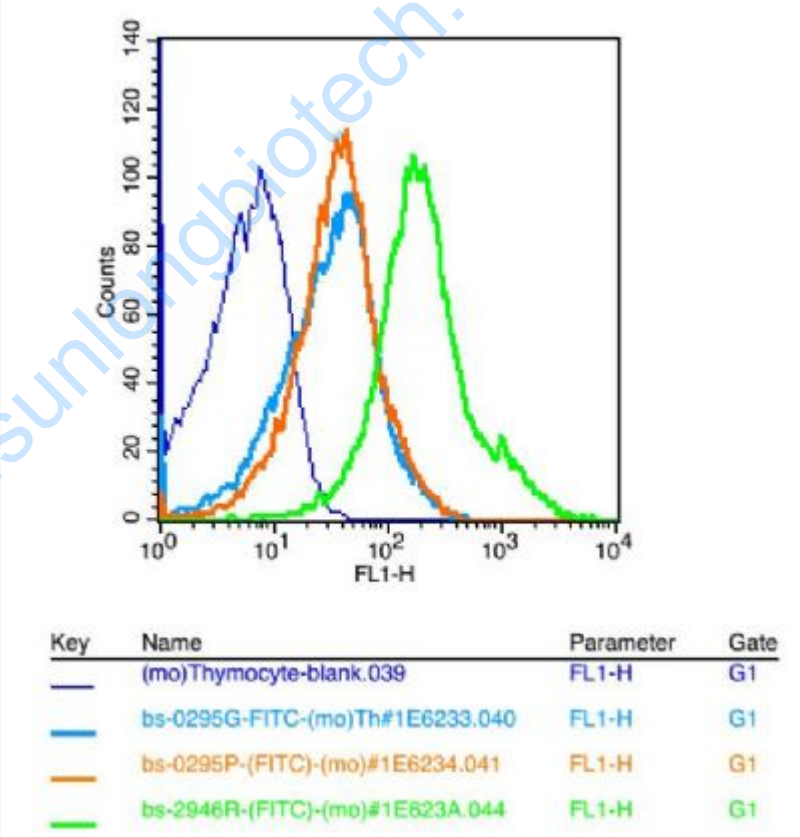
Unigene: 122575Human

Unigene: 23253Mouse

	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample: Testis (Rat) Lysate at 40 ug Primary: Anti-LPA2 (SL10368R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 39 kD Observed band size: 39 kD 

Tissue/cell: rat spleen 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℃ for 20 min;

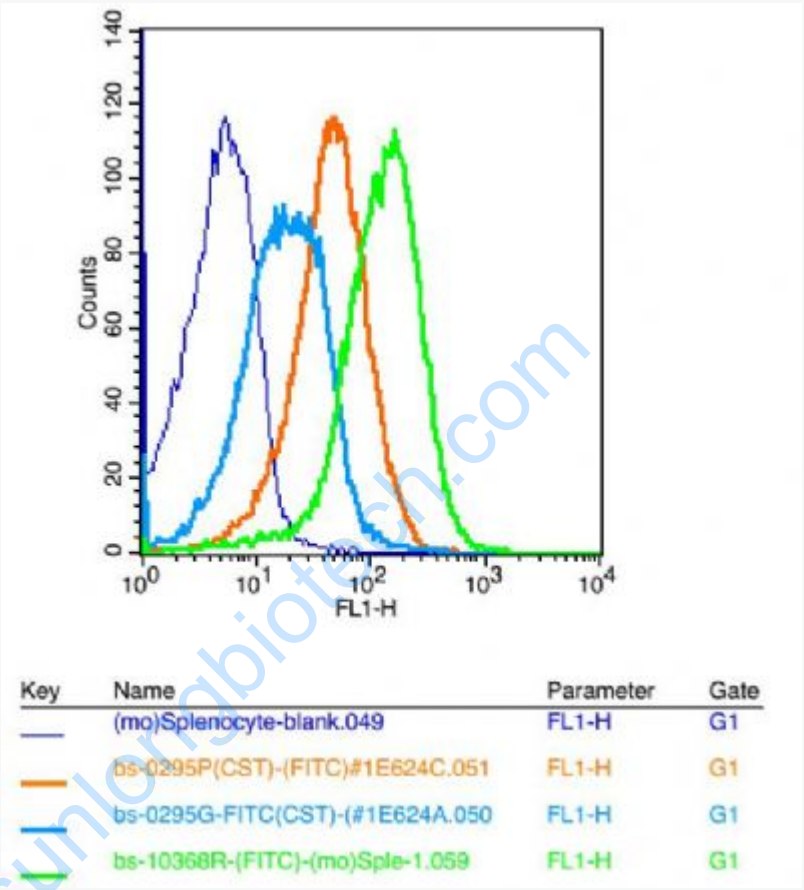
Incubation: Anti-LPA2 Polyclonal Antibody, Unconjugated(SL10368R) 1:100, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: mouse thymouses(blue)

Isotype Control Antibody: Rabbit IgG(orange) ; Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:100 in 1 X PBS containing 0.5% BSA ;

Primary Antibody Dilution: 1µl in 100 µL1X PBS containing 0.5% BSA(green).



Positive control: (mo)Splenocytes(2% Paraformaldehyde-fixed)

Isotype Control Antibody: Rabbit IgG,Dilution: 1µg in 100 µl 1 X PBS containing 0.5% BSA

Secondary Antibody: Goat anti-rabbit IgG-FITC,Dilution: 1:200 in 1 X PBS containing 0.5% BSA

Primary Antibody: rabbit Anti-LPA2 (SL10368R),Dilution: 1µg in 100 µl 1X PBS containing 0.5% BSA