SunLong Biotech Co.,LTD
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Rabbit Anti-VSIG4 antibody

SL0479R

Product Name	VSIG4
Chinese Name	Tlymphocyte 负调节蛋白抗体
Alias	V-set and immunoglobulin domain-containing protein 4; CRIg; V set and immunoglobulin domain containing 4; Z39IG; VSIG4_HUMAN.
Research Area	immunology The cell membrane 受体
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse, Rat, (predicted: Human, Dog, Cow,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	33kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human VSIG4: 81-160/399
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product	T cell activation by APCs is positively and negatively regulated by members of the

Detail

B7 family. We have identified a previously unknown function for B7 familyrelated protein V-set and Ig domaincontaining 4 (VSIG4). Administration to mice of soluble VSIG4-Ig fusion molecules reduced the induction of T cell responses in vivo and inhibited the production of Th celldependent IgG responses. Unlike that of B7 family members, surface expression of VSIG4 was restricted to resting tissue macrophages and absent upon activation by LPS or in autoimmune inflammatory foci. The specific expression of VSIG4 on resting macrophages in tissue suggests that this inhibitory ligand may be important for the maintenance of T cell unresponsiveness in healthy tissues.

Function:
Phagocytic receptor, strong negative regulator of T-cell proliferation and IL2 production. Potent inhibitor of the alternative complement pathway convertases.

Subcellular Location:
Membrane; Single-pass type I membrane protein (Probable).

Tissue Specificity:
Abundantly expressed in several fetal tissues. In adult tissues, highest expression in lung and placenta. Expressed in resting macrophages.

Similarity:
Contains 2 Ig-like (immunoglobulin-like) domains.

SWISS:
Q9Y279

Gene ID:
11326

Database links:

Entrez Gene: 11326 Human

Entrez Gene: 278180 Mouse

Entrez Gene: 312102 Rat

Omim: 300353 Human

SwissProt: Q9Y279 Human

Unigene: 8904 Human

Unigene: 26781 Mouse

Unigene: 138093 Rat

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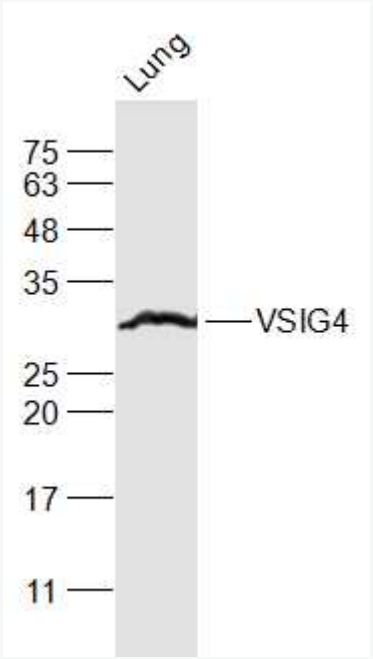
Product Picture



Sample:

Lung (Mouse) Lysate at 40 ug

Primary: Anti-VSIG4 (SL0479R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 33 kD

Observed band size: 33 kD

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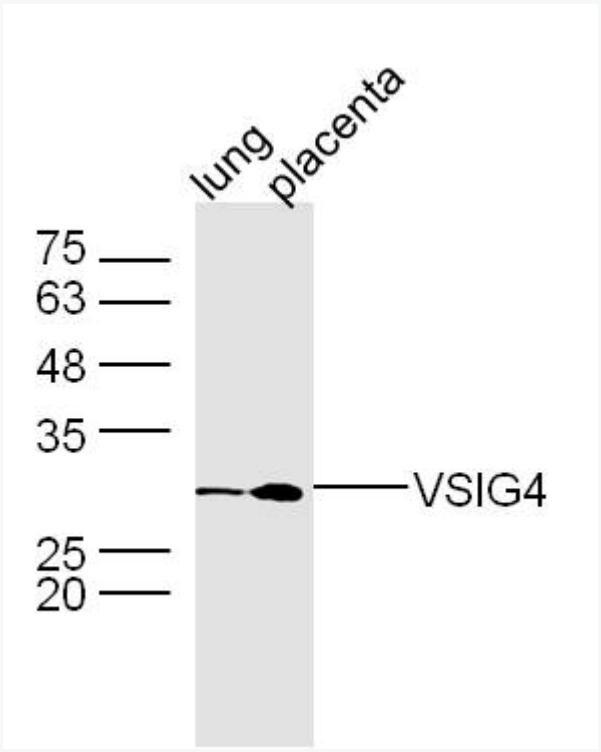

Sample:

Lung(Mouse)Lysate at 30 ug

Placenta(Mouse) Lysate at 30 ug

Primary: Anti-VSIG4 (SL0479R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 33 kD

Observed band size: 33 kD

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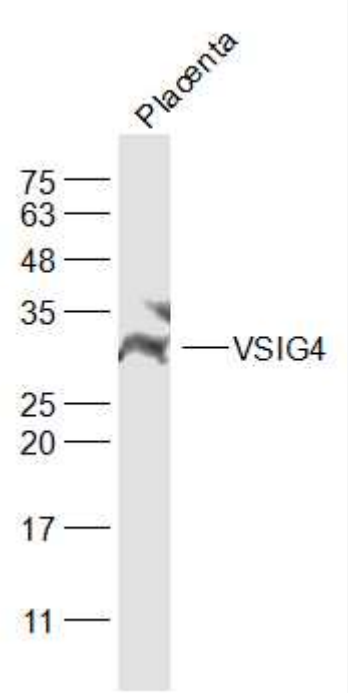

Sample:

Placenta (Mouse) Lysate at 40 ug

Primary: Anti-VSIG4 (SL0479R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 33 kD

Observed band size: 33 kD

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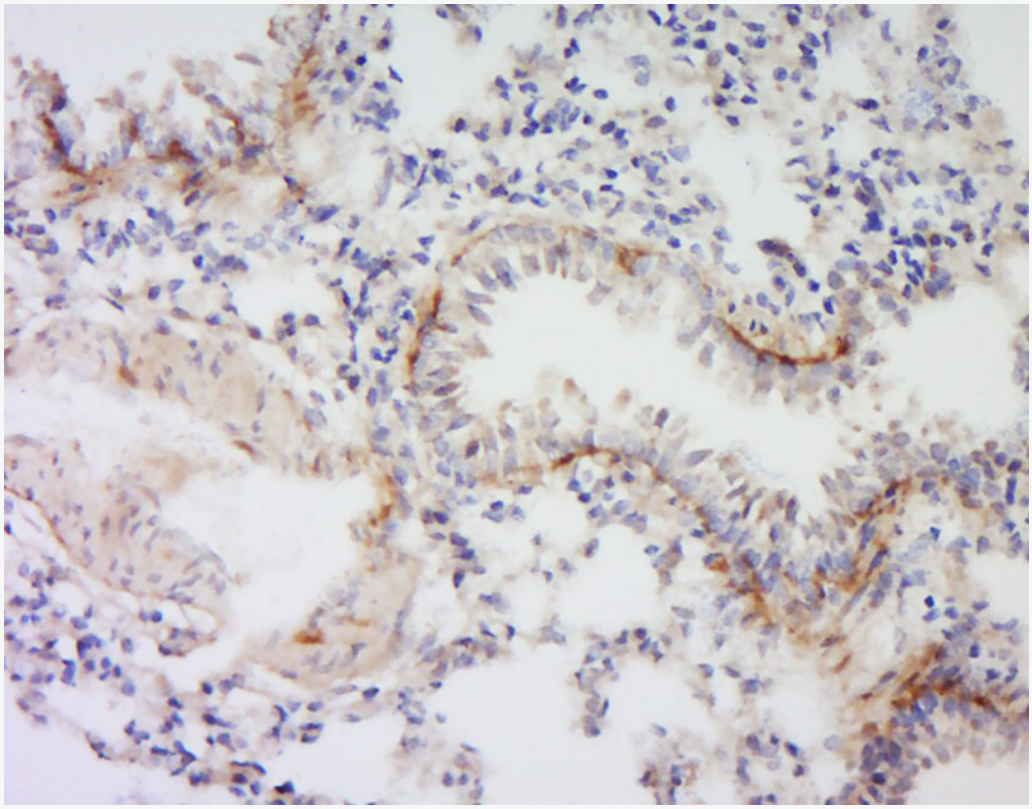

Tissue/cell: Rat lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, 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- VSIG4 Polyclonal Antibody, Unconjugated(SL0479R) 1:200, overnight at 4∑C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining