

Product datasheet for **TA329054**

S1pr2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide ERQVALAKVKLYGSDKSC, corresponding to amino acid residues 129-146 of mouse Sphingosine 1-Phosphate Receptor 2 (S1PR2), (Accession P52592). 2nd intracellular loop.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN ₃ .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	sphingosine-1-phosphate receptor 2
Database Link:	NP_034463 Entrez Gene 29415 Rat P52592



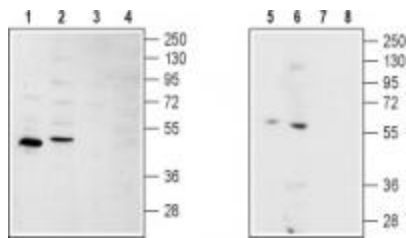
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Background:

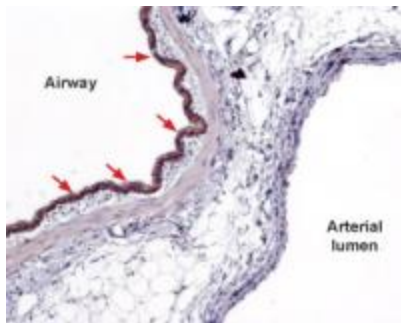
Lysophospholipids constitute a group of important lipid mediators; lysophosphatidic acid (LPA) a glycerolysophospholipid and sphingosine 1-phosphate (SIP), a lysosphingolipid. Sphingosine 1-phosphate is a bioactive lipid derived from metabolism of sphingomyelin. Sphingosine 1-phosphate is implicated in the regulation of many cellular functions including proliferation, apoptosis, survival, adhesion, differentiation, and migration. Sphingosine 1-phosphate exerts its activity through five distinct G-protein-coupled receptors, (also named endothelial differentiation gene receptors - EDG); S1PR1 (EDG-1), S1PR2 (EDG-5), S1PR3 (EDG-3), S1PR4 (EDG-6), and S1PR5 (EDG-8). Sphingosine 1-Phosphate Receptor 2 (S1PR2) is ubiquitously expressed. S1PR2 mRNA was detected in the brain, heart, spleen, liver, lung, thymus, kidney and skeletal muscle. Unlike S1PR1, knockout of S1PR2 gene is not lethal.

Synonyms:

AGR16; EDG-5; EDG5; Gpcr13; H218; LPB2; S1P2

Product images:

Western blot analysis of rat kidney (lanes 1 and 3) and rat heart (lanes 2 and 4) lysates: 1, 2. Anti-Sphingosine 1-Phosphate Receptor 2 antibody, (1:200). 3, 4. Anti-Sphingosine 1-Phosphate Receptor 2 antibody, preincubated with the control peptide antigen.



Expression of Sphingosine 1-Phosphate Receptor 2 in rat lung. Immunohistochemical staining of paraffin embedded rat lung sections using Anti-Sphingosine 1-Phosphate Receptor 2 antibody, (1:100). Sphingosine 1-Phosphate Receptor 2 is expressed in respiratory epithelium (red arrows). Hematoxylin is used as the counterstain.