Data Sheet (Cat.No.TMAH-01066)

TargetMol

Anti-S1PR1 Antibody (4A625)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4A625
Purification:	Affinity-chromatography

Applications

Verified Activity:	Western Blot -Positive WB detected in: SH-SY5Y whole cell lysate, PC3 whole cell lysate, HepG2 whole cell lysate, Jurkat whole cell lysate, U251 whole cell lysate -All lanes: EDG1 antibody at 1:2000 -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 43 kDa -Observed band size: 43 kDa
Application:	ELISA, WB
Recommended	WB:1:500-1:5000.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human EDG1
Antigen Species:	Human
Gene ID:	1901
Uniprot ID:	P21453
Synonyms:	Sphingosine 1-phosphate receptor 1;S1P1;CHEDG1;Endothelial differentiation G-protein coupled receptor 1;S1P receptor 1;CD antigen CD363;S1P receptor Edg-1;Sphingosine 1-phosphate receptor Edg-1;EDG1;S1PR 1
Biology Area:	Cancer, Cardiovascular, Cell biology, Signal transduction

Research Background

G-protein coupled receptor for the bioactive lysosphingolipid sphingosine 1-phosphate (S1P) that seems to be coupled to the G(i) subclass of heteromeric G proteins. Signaling leads to the activation of RAC1, SRC, PTK2/FAK1 and MAP kinases. Plays an important role in cell migration, probably via its role in the reorganization of the actin cytoskeleton and the formation of lamellipodia in response to stimuli that increase the activity of the sphingosine kinase SPHK1. Required for normal chemotaxis toward sphingosine 1-phosphate. Required for normal embryonic heart development and normal cardiac morphogenesis. Plays an important role in the regulation of sprouting angiogenesis and vascular maturation. Inhibits sprouting angiogenesis to prevent excessive sprouting during blood

vessel development. Required for normal egress of mature T-cells from the thymus into the blood stream and into peripheral lymphoid organs. Plays a role in the migration of osteoclast precursor cells, the regulation of bone mineralization and bone homeostasis. Plays a role in responses to oxidized 1-palmitoyl-2-arachidonoyl-sn-glycero-3-phosphocholine by pulmonary endothelial cells and in the protection against ventilator-induced lung injury.

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