

Mouse S1P₅/EDG-8 PE-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1196A Catalog Number: FAB9084P

25 Tests

DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse S1P ₅ /EDG-8 in Western blots.		
Source	Recombinant Monoclonal Rabbit IgG Clone # 1196A		
Purification	Protein A or G purified from cell culture supernatant		
Immunogen	Mouse S1P ₅ /EDG-8 peptide corresponding to the N-terminal extracellular sequence Accession # Q91X56		
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm		
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.		

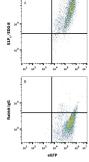
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	10 μL/10 ⁶ cells	See Below

DATA

Flow Cytometry



Detection of S1P_g/EDG-8 in HEK293 Human Cell Line Transfected with Mouse S1P_g/EDG-8 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with mouse S1P_g/EDG-8 and eGFP were stained with either (A) Rabbit Anti-Mouse S1P_g/EDG-8 PE-conjugated Monoclonal Antibody (Catalog # FAB9084P) or (B) Normal Rabbit IgG Phycoerythrin Control (Catalog # IC1051P). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below

Stability & Storage F

Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

S1P₅ (Sphingosine-1 Phosphate receptor 5), also known as EDG-8 (Endothelial Differentiation Gene 8), is a 43-45 kDa member of the EDG family, S1P-binding subfamily of GPCRs. Along with S1P₁-S1P₄ (or EDG-1, EDG-5, EDG-3 and EDG-6, respectively), S1P₅ is known to bind S1P, a lipid synthesized by platelets, neutrophils, smooth muscle cells, mast cells and select fibroblasts. Mouse S1P₅ is a 400 amino acid (aa) 7-transmembrane glycoprotein that is expressed on brain endothelium, renal mesangial cells, Ly6C+ (in human CD14+CD16-) monocytes, pre- and mature oligodendrocytes, and CD27-CD116+ (mature) NK cells. S1P₅ appears to play a role in cell trafficking. On monocytes and NK cells, S1P₅ promotes cell migration out of the bone marrow, a phenomenon that may not be related to an S1P concentration gradient. S1P₅ also helps maintain the integrity of the blood-brain-barrier. On oligodendrocytes and precursors, S1P₅ appears to regulate cell survival and pseudopod extension. The extracellular segment of mouse S1P₅ shares 96% and 94% as sequence identity with rat and human S1P₅ extracellular domains, respectively.

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