

Human S1P₂/EDG-5 Antibody

Monoclonal Mouse IgG₁ Clone # 368510 Catalog Number: MAB3649

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human S1P ₂ /EDG-5. Stains human S1P ₂ /EDG-5 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG ₁ Clone # 368510
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human S1P ₂ /EDG-5 Met1-Val353 Accession # AAC98919
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

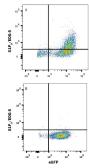
APPLICATIONS

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	0.25 μg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled u with conjugation.	sing established conjugation methods. No BSA or other carrier proteins that could interfere

DATA

Flow Cytometry



Detection of S1P₂/EDG-5 in HEK293 Human Cell Line Transfected with Human S1P₂/EDG-5 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) human S1P₂/EDG-5 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human S1P₂/EDG-5 Monoclonal Antibody (Catalog # MAB3649) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB3002). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		
	 12 months from date of receipt, -20 to -70 °C as supplied. 		
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 		
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6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

S1P₂ (sphingosine 1-phosphate receptor-2), also known as EDG-5 (endothelial differentiation, G-protein coupled receptor-5), is a 353 amino acid (aa) seven-transmembrane receptor putative glycoprotein that binds the lysolipid phosphoric acid mediator, sphingosine 1-phosphate. Extracellular portions of human S1P₂ show 82.5% aa identity with mouse S1P₂ and 92% aa identity with human EDG-3, the most closely related family member. Both are expressed predominantly in the lung, heart, kidney, liver, spleen, thymus, testis and brain, mediating both mitogenic and anti-apoptotic effects.

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