Human $S1P_2$/EDG-5 APC-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 368510

Catalog Number: FAB3649A

100 Tests

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
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 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.

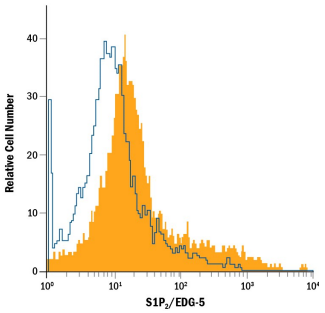
APPLICATIONS

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

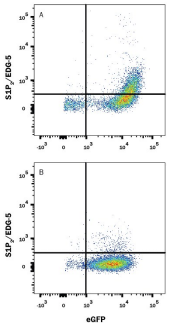
DATA

Flow Cytometry



Detection of $S1P_2$/EDG-5 in HUVEC Human Cells by Flow Cytometry. HUVEC human umbilical vein endothelial cells were stained with Mouse Anti-Human $S1P_2$/EDG-5 APC-conjugated Monoclonal Antibody (Catalog # FAB3649A, filled histogram) or isotype control antibody (Catalog # IC002A, open histogram). View our protocol for Staining Membrane-associated Proteins.

Flow Cytometry



Detection of $S1P_2$/EDG-5 in HEK293 Human Cell Line Transfected with Human $S1P_2$/EDG-5 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) human $S1P_2$/EDG-5 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human $S1P_2$/EDG-5 APC-conjugated Monoclonal Antibody (Catalog # FAB3649A). Quadrant markers were set based on control antibody staining (Catalog # IC002A). 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	**Protect from light. Do not freeze.** • 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

$S1P_2$ (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 $S1P_2$ show 82.5% aa identity with mouse $S1P_2$ 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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