# 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<br>Met1-Val353<br>Accession # AAC98919 |
| **Conjugate** | Allophycocyanin<br>Excitation Wavelength: 620-650 nm<br>Emission Wavelength: 660-670 nm |
| **Formulation** | Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*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. |

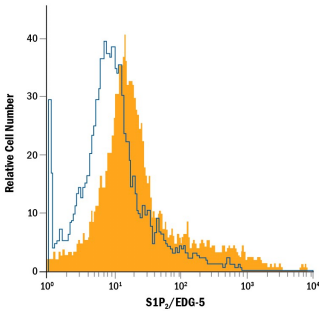
## APPLICATIONS

**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 |

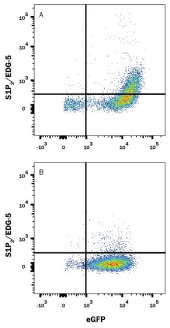
## DATA

**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

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|---|---|
| **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.**<br>● 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.



bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449