

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse S1P <sub>1</sub> /EDG-1 peptide in direct ELISAs.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 713412
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse S1P <sub>1</sub> /EDG-1 synthetic peptide (T4-H28) Accession # O08530
<b>Formulation</b>	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.

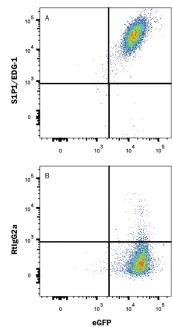
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

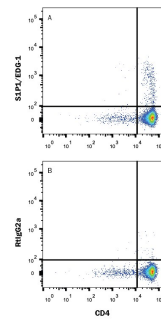
## DATA

### Flow Cytometry



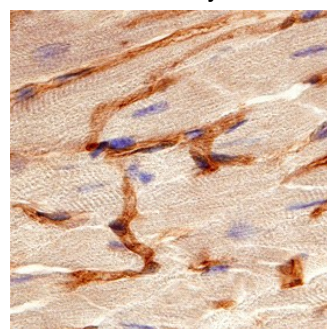
**Detection of S1P<sub>1</sub>/EDG-1 in HEK293 Human Cell Line Transfected With S1P<sub>1</sub>/EDG-1 by Flow Cytometry.** HEK293 human embryonic kidney cell line transfected with mouse S1P<sub>1</sub>/EDG-1 and GFP was stained with (A) Rat Anti-Mouse S1P<sub>1</sub>/EDG-1 Monoclonal Antibody (Catalog # MAB7089) or (B) Rat IgG2A isotype control antibody (Catalog # MAB006) followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113). View our protocol for [Staining Membrane-associated Proteins](#).

### Flow Cytometry



**Detection of S1P<sub>1</sub>/EDG-1 in Mouse Thymocytes by Flow Cytometry.** Mouse thymocytes were stained with Rat Anti-Mouse CD4 PE-conjugated Monoclonal Antibody (Catalog # FAB554P) and either (A) Rat Anti-Mouse S1P<sub>1</sub>/EDG-1 Monoclonal Antibody (Catalog # MAB7089) or (B) Rat IgG2A Isotype Control (Catalog # MAB006) followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113). View our protocol for [Staining Membrane-associated Proteins](#).

### Immunohistochemistry



**S1P<sub>1</sub>/EDG-1 in Mouse Heart.** S1P<sub>1</sub>/EDG-1 was detected in perfusion fixed frozen sections of mouse heart using Rat Anti-Mouse S1P<sub>1</sub>/EDG-1 Monoclonal Antibody (Catalog # MAB7089) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counter-stained with hematoxylin (blue). Specific staining was localized to endothelial cells in capillaries. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

S1P<sub>1</sub> (sphingosine 1-phosphate receptor-1), also known as EDG-1 (endothelial differentiation, G-protein coupled receptor-1) or S1PR1 (sphingosine-1-phosphate receptor 1) is a widely expressed, 37-40 kDa, G protein coupled receptor within the S1P subfamily of the EDG family. S1P<sub>1</sub> is one of five receptors for the bioactive lipid S1P and mediates most of S1P effects on angiogenesis, vascular maturation, and cell migration, especially T cell egress from lymphoid organs. Human and mouse S1P<sub>1</sub> share 84% amino acid identity within the N-terminal extracellular portion used as an immunogen.