

**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)<br>Accession # O08530   |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm  |
| <b>Formulation</b>        | 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.

|                       | <b>Recommended Concentration</b> | <b>Sample</b> |
|-----------------------|----------------------------------|---------------|
| <b>Flow Cytometry</b> | 0.25-1 µg/10 <sup>6</sup> cells  | See Below     |

**DATA**

**Flow Cytometry**

**Detection of S1P<sub>1</sub>/EDG-1 in HEK293 Human Cell Line Transfected with Mouse S1P<sub>1</sub>/EDG-1 and GFP by Flow Cytometry.** HEK293 human embryonic kidney cell line transfected with mouse S1P<sub>1</sub>/EDG-1 and GFP was stained with either (A) Rat Anti-Mouse S1P<sub>1</sub>/EDG-1 Alexa Fluor® 647-conjugated Monoclonal Antibody (Catalog # FAB7089R) or (B) Rat IgG<sub>2A</sub> Alexa Fluor 647 Isotype Control (Catalog # IC006R). 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 Alexa Fluor® 647-conjugated Monoclonal Antibody (Catalog # FAB7089R) or (B) Rat IgG<sub>2A</sub> Alexa Fluor 647 Isotype Control (Catalog # IC006R). View our protocol for [Staining Membrane-associated Proteins](#).

**PREPARATION AND STORAGE**

|                                |  |
|--------------------------------|--|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.                                  |
| <b>Stability &amp; Storage</b> | <b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</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.

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