

DESCRIPTION	
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human and mouse S1P <sub>5</sub> /EDG-8. Stains human and mouse S1P <sub>5</sub> /EDG-8 transfectants but not irrelevant transfectants.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 282503
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	BaF3 mouse pro-B cell line transfected with human S1P <sub>5</sub> /EDG-8 Met1-Asp398 Accession # Q9H228
<b>Conjugate</b>	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
<b>Formulation</b>	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
<b>Flow Cytometry</b>	10 μL/10 <sup>6</sup> cells	See Below

**DATA**

<p><b>Flow Cytometry</b></p> <p><b>Detection of S1P<sub>5</sub>/EDG-8 in HEK293 Human Cell Line Transfected with Human S1P<sub>5</sub>/EDG-8 and eGFP by Flow Cytometry.</b> HEK293 human embryonic kidney cell line transfected with human S1P<sub>5</sub>/EDG-8 and eGFP was stained with either (A) Mouse Anti-Human S1P<sub>5</sub>/EDG-8 APC-conjugated Monoclonal Antibody (Catalog # FAB3964A) or (B) Mouse IgG<sub>2B</sub> Allophycocyanin Isotype Control (Catalog # IC0041A). View our protocol for <a href="#">Staining Membrane-associated Proteins</a>.</p>	<p><b>Flow Cytometry</b></p> <p><b>Detection of S1P<sub>5</sub>/EDG-8 in HEK293 Human Cell Line Transfected with Mouse S1P<sub>5</sub>/EDG-8 and eGFP by Flow Cytometry.</b> HEK293 human embryonic kidney cell line transfected with mouse S1P<sub>5</sub>/EDG-8 and eGFP was stained with either (A) Mouse Anti-Human S1P<sub>5</sub>/EDG-8 APC-conjugated Monoclonal Antibody (Catalog # FAB3964A) or (B) Mouse IgG<sub>2B</sub> Allophycocyanin Isotype Control (Catalog # IC0041A). View our protocol for <a href="#">Staining Membrane-associated Proteins</a>.</p>
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**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>5</sub> is also known as EDG-8 and nerve growth factor-related G-protein-coupled receptor-1 (NRG-1). S1P<sub>5</sub> is a 398 amino acid (aa) seven-transmembrane receptor putative glycoprotein that binds the lysolipid phosphoric acid mediator, sphingosine 1-phosphate. Extracellular portions of human S1P<sub>5</sub> show 96% and 97% aa identity with mouse and rat S1P<sub>5</sub>, respectively. Isoform 1 is expressed at a low level in peripheral tissues. Isoform 2 has an alternate C-terminal that is 88 aa shorter and is expressed mainly in brain, spleen, and PBMC. S1P<sub>5</sub> is upregulated in large granular lymphocytic leukemias.