

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse S1P <sub>5</sub> /EDG-8 in Western blots.
<b>Source</b>	Monoclonal Rabbit IgG Clone # 1196A
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	Mouse S1P <sub>5</sub> /EDG-8 peptide corresponding to the N-terminal extracellular sequence Accession # Q91X56
<b>Conjugate</b>	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
<b>Formulation</b>	Supplied 0.2 mg/mL 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	HEK293 human embryonic kidney cell line transfected with mouse S1P <sub>5</sub> /EDG-8

#### 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> (Sphingosine-1 Phosphate receptor 5), also known as EDG-8 (Endothelial Differentiation Gene 8), is a 43-45 kDa member of the EDG family, S1P-binding subfamily of GPCRs. Along with S1P<sub>1</sub>-S1P<sub>4</sub> (or EDG-1, EDG-5, EDG-3 and EDG-6, respectively), S1P<sub>5</sub> is known to bind S1P, a lipid synthesized by platelets, neutrophils, smooth muscle cells, mast cells and select fibroblasts. Mouse S1P<sub>5</sub> is a 400 amino acid (aa) 7-transmembrane glycoprotein that is expressed on brain endothelium, renal mesangial cells, Ly6C<sup>+</sup> (in human CD14<sup>+</sup>CD116<sup>-</sup>) monocytes, pre- and mature oligodendrocytes, and CD27<sup>+</sup>CD116<sup>+</sup> (mature) NK cells. S1P<sub>5</sub> appears to play a role in cell trafficking. On monocytes and NK cells, S1P<sub>5</sub> promotes cell migration out of the bone marrow, a phenomenon that may not be related to an S1P concentration gradient. S1P<sub>5</sub> also helps maintain the integrity of the blood-brain-barrier. On oligodendrocytes and precursors, S1P<sub>5</sub> appears to regulate cell survival and pseudopod extension. The extracellular segment of mouse S1P<sub>5</sub> shares 96% and 94% aa sequence identity with rat and human S1P<sub>5</sub> extracellular domains, respectively.

#### PRODUCT SPECIFIC NOTICES

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