

## DESCRIPTION

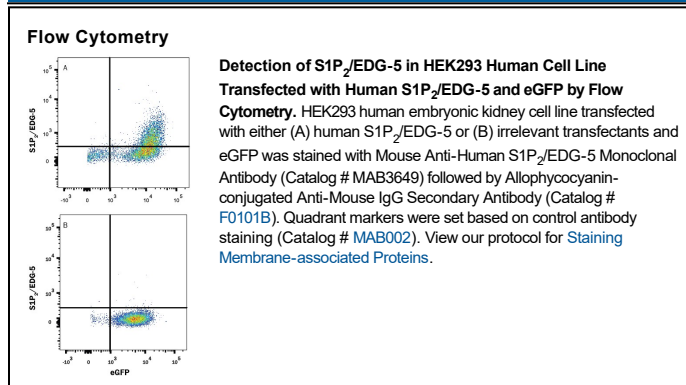
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human S1P <sub>2</sub> /EDG-5. Stains human S1P <sub>2</sub> /EDG-5 transfectants but not irrelevant transfectants.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 368510
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human S1P <sub>2</sub> /EDG-5 Met1-Val353 Accession # AAC98919
<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.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	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



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<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>2</sub> (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<sub>2</sub> show 82.5% aa identity with mouse S1P<sub>2</sub> 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.