

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human S1P ₅ /EDG-8. Stains human S1P ₅ /EDG-8 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG _{2B} Clone # 282503
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	BaF3 mouse pro-B cell line transfected with human S1P ₅ /EDG-8 Met1-Asp398 Accession # Q9H228
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	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. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	HEK293 human embryonic kidney cell line transfected with human S1P ₅ /EDG-8 and eGFP

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

BACKGROUND

S1P₅ is also known as EDG-8 and nerve growth factor-related G-protein-coupled receptor-1 (NRG-1). S1P₅ 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 S1P₅ show 96% and 97% aa identity with mouse and rat S1P₅, 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. S1P₅ is upregulated in large granular lymphocytic leukemias.

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