Human $S1P_5$/EDG-8
Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 282503

Catalog Number: FAB3964V

100 µg

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 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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. General Protocols are available in the Technical Information 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.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

$S1P_5$ is also known as EDG-8 and nerve growth factor-related G-protein-coupled receptor-1 (NRG-1). $S1P_5$ 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 $S1P_5$ show 96% and 97% aa identity with mouse and rat $S1P_5$, 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. $S1P_5$ is upregulated in large granular lymphocytic leukemias.

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