

DESCRIPTION

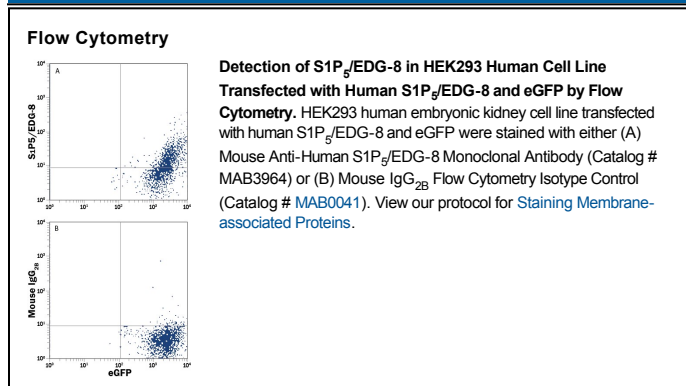
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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Species Reactivity | Human |
| 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 |
| Endotoxin Level | <0.10 EU per 1 µg of the antibody by the LAL method. |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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 |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Flow Cytometry | 0.25 µL/10 ⁶ cells | See Below |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |

DATA



PREPARATION AND STORAGE

| | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | 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 |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

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.