

Mouse S1P₅/EDG-8 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1196A Catalog Number: MAB9084

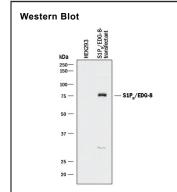
DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse S1P ₅ /EDG-8 in Western blots.	
Source	Recombinant Monoclonal Rabbit IgG Clone # 1196A	
Purification	Protein A or G purified from cell culture supernatant	
Immunogen	Mouse S1P _g /EDG-8 peptide corresponding to the N-terminal extracellular sequence Accession # Q91X56	
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 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.

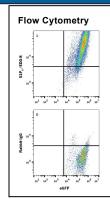
	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below

DATA



Detection of Mouse S1P₅/EDG-8 by

Western Blot. Western blot shows lysates of HEK293 human embryonic kidney cell line either mock transfected or transfected with mouse S1P₅. PVDF membrane was probed with 1 μg/mL of Rabbit Anti-Mouse S1P₅/EDG-8 Monoclonal Antibody (Catalog # MAB9084) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for S1P₅/EDG-8 at approximately 75 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of S1P_g/EDG-8 in HEK293 Human Cell Line
Transfected with Mouse S1P_g/EDG-8 and eGFP by Flow
Cytometry. HEK293 human embryonic kidney cell line transfected
with mouse S1P_g/EDG-8 and eGFP were stained with and either
(A) Rabbit Anti-Mouse S1P_g/EDG-8 Monoclonal Antibody
(Catalog # MAB9084) or (B) Normal Rabbit IgG Control
(Catalog # AB-105-C) followed by Phycoerythrin-conjugated AntiMouse IgG Secondary Antibody (Catalog # F0102B). View our
protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

ShippingThe 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.

- 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 (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 S1P₁-S1P₄ (or EDG-1, EDG-5, EDG-3 and EDG-6, respectively), S1P₅ is known to bind S1P, a lipid synthesized by platelets, neutrophils, smooth muscle cells, mast cells and select fibroblasts. Mouse S1P₅ is a 400 amino acid (aa) 7-transmembrane glycoprotein that is expressed on brain endothelium, renal mesangial cells, Ly6C+ (in human CD14+CD16-) monocytes, pre- and mature oligodendrocytes, and CD27-CD116+ (mature) NK cells. S1P₅ appears to play a role in cell trafficking. On monocytes and NK cells, S1P₅ promotes cell migration out of the bone marrow, a phenomenon that may not be related to an S1P concentration gradient. S1P₅ also helps maintain the integrity of the blood-brain-barrier. On oligodendrocytes and precursors, S1P₅ appears to regulate cell survival and pseudopod extension. The extracellular segment of mouse S1P₅ shares 96% and 94% as sequence identity with rat and human S1P₅ extracellular domains, respectively.

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