Mouse $S1P_1$/EDG-1 Alexa Fluor® 700-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 713412

Catalog Number: FAB7089N

100 TESTS

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse $S1P_1$/EDG-1 peptide in direct ELISAs.
Source	Monoclonal Rat IgG_{2A} Clone # 713412
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse $S1P_1$/EDG-1 synthetic peptide (T4-H28) Accession # O08530
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 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.

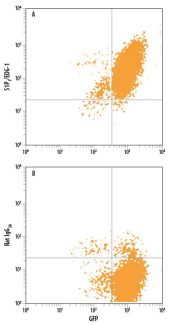
APPLICATIONS

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	5 µL/10^6 cells	See Below

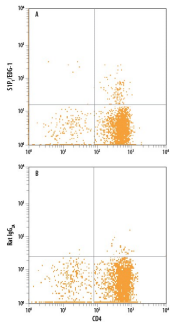
DATA

Flow Cytometry



Detection of $S1P_1$/EDG-1 in HEK293 Human Cell Line Transfected with Mouse $S1P_1$/EDG-1 and GFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with mouse $S1P_1$/EDG-1 and GFP was stained with either (A) Rat Anti-Mouse $S1P_1$/EDG-1 Alexa Fluor® 700-conjugated Monoclonal Antibody (Catalog # FAB7089N) or (B) Rat IgG_{2A} Alexa Fluor 700 Isotype Control (Catalog # IC006N). View our protocol for Staining Membrane-associated Proteins.

Flow Cytometry



Detection of $S1P_1$/EDG-1 in Mouse Thymocytes by Flow Cytometry. Mouse thymocytes were stained with Rat Anti-Mouse CD4 PE-conjugated Monoclonal Antibody (Catalog # FAB554P) and either (A) Rat Anti-Mouse $S1P_1$/EDG-1 Alexa Fluor® 700-conjugated Monoclonal Antibody (Catalog # FAB7089N) or (B) Rat IgG_{2A} Alexa Fluor 700 Isotype Control (Catalog # IC006N). View our protocol for Staining Membrane-associated Proteins.

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

$S1P_1$ (sphingosine 1-phosphate receptor-1), also known as EDG-1 (endothelial differentiation, G-protein coupled receptor-1) or S1PR1 (sphingosine-1-phosphate receptor 1) is a widely expressed, 37-40 kDa, G protein coupled receptor within the S1P subfamily of the EDG family. $S1P_1$ is one of five receptors for the bioactive lipid S1P and mediates most of S1P effects on angiogenesis, vascular maturation, and cell migration, especially T cell egress from lymphoid organs. Human and mouse $S1P_1$ share 84% amino acid identity within the N-terminal extracellular portion used as an immunogen.

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