

S1P1 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 253950

Unit: 0.1 mg

Description:

Movement of lymphocytes through lymphoid organs is required for generating immunity. Their migration into lymph nodes follows a series of events including integrin activation through chemokine signaling, adhesion and diapedis. The release of lymphocytes from lymph nodes is regulated by the phospholipid sphingosine-1-phosphate (S1P). One of its receptors S1P1 binds S1P with high specificity and affinity; agonism of this receptor by the immunosuppressive agent FTY720 inhibits the entry of tissue T cells into afferent lymphatics in homeostatic and inflammatory conditions. Recent experiments have indicated that CCR7-deficient T cells left lymph nodes more rapidly than wild-type cells did and these cells were also less effectively retained after treatment with FTY720, and that egress competence could be restored by inactivating G alpha i-protein-coupled receptor signaling. These results suggest that S1P1 acts in the lymphocyte to promote lymph node egress by overcoming retention signals mediated by CCR7 and G alpha i-protein-coupled receptor signaling. At least two isoforms of S1P1 are known to exist; this S1P1 antibody will only recognize the shorter isoform.

Isotype: Rabbit Ig

Applications: E, IHC, WB

Species Reactivity: H, M, R

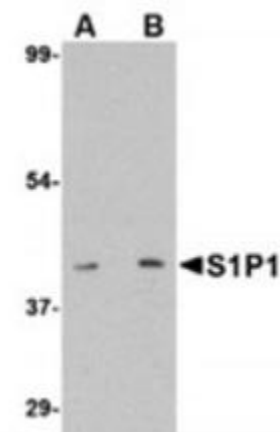
Format: Each vial contains 0.1 mg IgG (1 mg/ml) in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: S1P1; Sphingosine 1-phosphate receptor 1; S1PR1; EDG1; ECGF1; CHEDG1; S1P receptor 1; Endothelial differentiation G-protein coupled receptor 1; CD363

Accession No.: NP_001391

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human S1P1.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:100-1:500



Western blot analysis of S1P1 in mouse thymus lysate with S1P1 Antibody (Cat. No. 253950) at (A) 1 and (B) 2 ug/mL.

Storage: Store at -20°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.