

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human S1P ₃ /EDG-3 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 776807
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human S1P ₃ /EDG-3 Accession # Q99500
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.

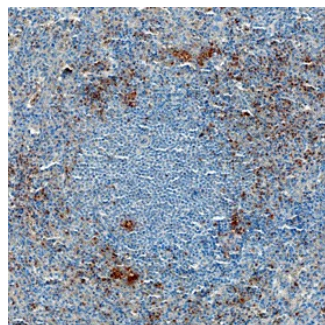
APPLICATIONS

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
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



S1P₃/EDG-3 in Human Spleen. S1P₃/EDG-3 was detected in immersion fixed paraffin-embedded sections of human spleen using Mouse Anti-Human S1P₃/EDG-3 Monoclonal Antibody (Catalog # MAB75241) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to the marginal zone of germinal centers. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

EDG-3, also known as sphingosine 1-phosphate receptor-3 (S1P3), is a 378 amino acid (aa) seven-transmembrane receptor for the lysolipid phosphoric acid mediator, sphingosine 1-phosphate (S1P). EDG-3 interactions with S1P induce a range of responses including vasoconstriction, brachycardia, vascular endothelial and smooth muscle cell proliferation and migration, heart and liver fibrosis, and coagulation-induced inflammation. Extracellular portions of human EDG-3 show 74% aa identity with mouse and rat EDG-3.