

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse ESAM in direct ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 340236
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse ESAM Gln30-Ser248 (predicted) Accession # Q925F2
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
Immunohistochemistry	8-25 µg/mL	Perfusion fixed frozen sections of mouse liver, thymus, and intestine

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

ESAM (Endothelial Cell-Specific Adhesion Molecule) is a 55 kDa type I transmembrane glycoprotein belonging to the CTX (cortical thymocyte marker in Xenopus) family of cell adhesion molecules within the immunoglobulin superfamily. Other family members are CXADR, CLMP, JAM-A-C, CD2, A33, and BT-IgSF. The extracellular region of ESAM contains one V-type and one C2-type Ig domain and is involved in homophilic adhesion. Mouse ESAM extracellular domain shares 69% amino acid sequence identity with the corresponding region of human ESAM. ESAM is expressed on endothelial cells, activated platelets and megakaryocytes and can be found associated with cell-to-cell junctions.