

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse ESAM in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human ESAM is observed.                                                                                                                     |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2B</sub> Clone # 340212                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse ESAM<br>Gln30-Ser248 (predicted)<br>Accession # Q925F2                                                                                                                                                                |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## 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

ESAM 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.

## PRODUCT SPECIFIC NOTICES

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