

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse JAM-4/IGSF5 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant mouse (rm) JAM-A, rmJAM-B, and rmJAM-C is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse JAM-4/IGSF5 Leu15-Ala139 Accession # NP_082354
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
Western Blot	0.1 µg/mL	Recombinant Mouse JAM-4/IGSF5

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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

JAM-4, also known as IGSF5, is a 93 kDa member of the CTX (Cortical Thymocyte Marker in *Xenopus*) subfamily of the Ig superfamily. It is a type I transmembrane protein with an N-terminal extracellular V-type and C2 type Ig domain separated by a J segment, a transmembrane domain and a cytoplasmic tail with a PDZ binding motif. JAM-4 is expressed in intestinal, renal, and mammary epithelial cells, spermatogonia, and hematopoietic stem cells. It is a cell adhesion molecule that mediates homophilic interaction. JAM-4 also interacts with the intracellular membrane-associated guanylate kinase inverted 1 (MAGI-1). An additional isoform containing a 100 residue insertion between Gln 125 and Asp 126 has been reported. Over the region used as immunogen, mouse JAM-4 shares 82% and 63% amino acid sequence identity with rat and human JAM-4, respectively.