

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse JAM-A in ELISAs and Western blots. In sandwich immunoassays, less than 1% cross-reactivity with recombinant human JAM-A, recombinant mouse (rm) JAM-B, and rmJAM-C is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse JAM-A Lys27-Ala242 Accession # O88792
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	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

The family of junctional adhesion molecules (JAM), comprising at least three members, are type I transmembrane receptors belonging to the immunoglobulin (Ig) superfamily (1, 2). These proteins are localized in the tight junctions between endothelial or epithelial cells. Some family members are also found on blood leukocytes and platelets. Mouse JAM-A is predominantly expressed at intercellular junctions of both epithelial cells and endothelial cells (3). It is also expressed on circulating megakaryocytes. Mouse JAM-A cDNA predicts a 300 amino acid (aa) residue precursor protein with a putative 23 aa signal peptide, a 215 aa extracellular region containing two Ig-like V-subset domains, a 17 aa transmembrane domain and a 45 aa cytoplasmic domain. The human and mouse protein share approximately 67% aa sequence homology. Mouse JAM-A also shares approximately 35% aa sequence homology with mouse JAM-B or JAM-C. JAM-A exhibits homotypic interactions to regulate tight junction assembly and modulate paracellular permeability (1-3). The human JAM-A homotypic interaction also mediates platelet aggregation and adhesion to endothelial cells and may play a role in thrombosis (4). JAM-A is involved in leukocyte adhesion and transmigration through the endothelium (3, 5). JAM-A has also been shown to bind reovirus attachment protein sigma-1 to permit reovirus infection and signal virus-induced apoptosis (6).

PRODUCT SPECIFIC NOTICES

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