

Human JAM-A Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1103X

100 µg

| DESCRIPTION | | |
|--------------------|--|--|
| Species Reactivity | Human | |
| Specificity | Detects human JAM-A in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant mouse JAM-A is observed. | |
| Source | Polyclonal Goat IgG | |
| Purification | Antigen Affinity-purified | |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human JAM-A Ser28-Ala242 Accession # Q9Y624 | |
| Conjugate | Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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 Shee (SDS) for additional information and handling instructions. | |

| APPLICATIONS | | | |
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| 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. | | |
| Immunocytochemistry | 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. Human JAM-A, also known as platelet adhesion molecule 1 (PAM-1) and platelet F11 receptor (3), is predominantly expressed at intercellular junctions of both epithelial cells and endothelial cells (1-4). It is also expressed on circulating blood cells including neutrophils, monocytes, platelets, erythrocytes and lymphocytes (5). Human JAM-A cDNA predicts a 299 amino acid (aa) residue precursor protein with a putative 27 aa signal peptide, a 210 aa extracellular region containing two lg-like V-subset domains, a 24 aa transmembrane domain and a 38 aa cytoplasmic domain. The human and mouse proteins share approximately 67% aa sequence homology. Human JAM-A also shares approximately 35% and 32% aa sequence homology with human JAM-B and JAM-C, respectively. JAM-A exhibits homophilic interactions to regulate tight junction assembly and modulate paracellular permeability. This homophilic interation also mediates platelet aggregation and adhesion to endothelial cells and may play a role in thrombosis (3). JAM-A binds heterotypically with the β2 integrin lymphocyte function-associated antigen-1 (LFA-1). This JAM-A-LFA-1 interaction is involved in leukocyte adhesion and transmigration (6). JAM-A has also been shown to bind reovirus attachment protein sigma-1 to permit reovirus infection and signal virus-induced apoptosis (7).

PRODUCT SPECIFIC NOTICES

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