

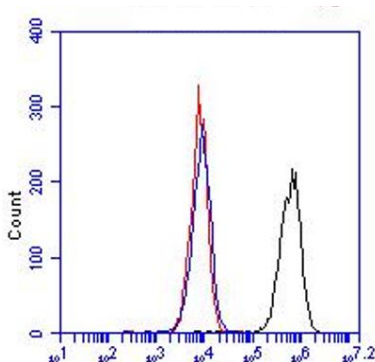
CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	JAM-A, Mouse, clone BV12, FITC conjugated		
Catalog number	HM1050F-100UG		
Lot number	-	Expiry date	-
Volume	1 ml	Amount	100 µg
Formulation	0.2 µm filtered in PBS+1%BSA+0.02%NaN3	Concentration	100 µg/ml
Host Species	Rat IgG2a	Conjugate	FITC
Endotoxin	N.A.	Purification	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #	3		1,3,5,6	3,4		1	1,2,4	3,4,6
Yes			•	•		•	•	•
No	•							
N.D.		•			•			

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot



FC: extracellular staining of JAM-A with HM1050. Cells used are bEnd3 cells. The blue line represents the cells only, the red line the isotype control and the black line HM1050. For HM1050 1 µg was used.

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- IHC-F: sections were air-dried overnight, fixed in acetone for 10 minutes, and incubated with 10% normal rabbit serum. Sections were then incubated with different primary Ab's (Ref.3).
- IP: Confluent monolayers of H5V cells were washed twice with PBS and then lysed for 30 min with lysis buffer. In some experiments, before cell lysis, cells were incubated for 2 h at room temperature in PBS with 5 mM bis(sulfosuccinimidyl) suberate (Ref.4).

General Information

Description The monoclonal antibody BV12 recognizes junctional adhesion molecule-A (JAM-A), also known as JAM-1 and the mouse platelet F11-Receptor (F11R), is a cell adhesion molecule (CAM). JAM-A is a member of the immunoglobulin superfamily found on the surface of mouse platelets and at intercellular junctions of endothelial cells and epithelial cells. JAM-A belongs together with JAM-B (VE-JAM or JAM-3) and JAM-C (JAM-2) to a family of adhesion proteins with a V-C2 immunoglobulin domain organization. JAM plays an important role in tight junctions where it is involved in cell-to-cell adhesion through homophilic interaction. It codistributes with other tight junction components as ZO-1, 7H6 antigen, cingulin and occludin. In human JAM-A plays a role in platelet aggregation, secretion, adhesion and spreading.

Immunogen H5V endothelial cells (Ref.1)

Aliases Junctional adhesion molecule A, Junctional adhesion molecule 1, JAM-1, CD321

Gene	Gene name: F11r, Jam1, Jcam, Jcam1
Cross reactivity	Human JAM-A: No
References	<ol style="list-style-type: none"> 1. Martín-Padura, I et al; Junctional Adhesion Molecule, a Novel Member of the Immunoglobulin Superfamily That Distributes at Intercellular Junctions and Modulates Monocyte Transmigration. <i>J Cell Biol</i> 1998, <i>142</i>:117 2. Bazzoni, G et al; Interaction of junctional adhesion molecule with the tight junction components ZO-1, cingulin, and occludin. <i>J Biol Chem</i> 2000, <i>275</i>: 20520 3. Cera, M et al; Increased DC trafficking to lymph nodes and contact hypersensitivity in junctional adhesion molecule-A-deficient mice. <i>J Clin Invest</i> 2004, <i>114</i>:729 4. Martínez-Estrada, O et al; Opposite effects of tumor necrosis factor and soluble fibronectin on junctional adhesion molecule-A in endothelial cells. <i>AJP-Lung Cell Mol Physiol</i> 2005, <i>288</i>: L1081 5. Baluk, P et al; Functionally specialized junctions between endothelial cells of lymphatic vessels. <i>JEM</i> 2007, <i>204</i>:2349 6. Murakami, M et al; Abrogation of Junctional Adhesion Molecule-A Expression Induces Cell Apoptosis and Reduces Breast Cancer Progression. <i>PLoS ONE</i> 2011, <i>6</i>: e21242
Storage&stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

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Approved by Manager of QC
Brenda Teunissen

Date
12/11/2019

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.