

**MONOCLONAL ANTIBODY TO
MOUSE JUNCTIONAL ADHESION MOLECULE-C (JAM-C)
Clone CRAM-18 F26**



Catalog nr	HM1057 (lot number and expiry date are indicated on the label)
Description	The monoclonal antibody CRAM-18 F26 recognizes junctional adhesion molecule-C (JAM-C) also known as JAM-2, a 45 kD cell adhesion molecule (CAM). JAM-C is a transmembrane protein which is a member of the immunoglobulin superfamily found at intercellular junctions of endothelial cells. JAM-C belongs together with JAM-A (JAM or JAM-1) and JAM-B (VE-JAM or JAM-3) 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. JAM-C is potentially involved in the junctional sealing of the vascular endothelium, in particular of high endothelial venules (HEV). In adult murine tissue JAM-C expression is reported to be restricted to high endothelial venules of lymphoid organs, lymphoendothelial cells and endothelial cells in kidney. Monoclonal antibody CRAM-18 F26 also reacts with human JAM-C. In humans, JAM-C expression is not restricted to endothelial cells, but is also expressed on human lymphocytes.
Species	Rat IgG _{2a}
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.1% bovine serum albumin.
Application	The monoclonal antibody CRAM-18 F26 can be used for immunoprecipitation, immunoassays as detector antibody, immunohistology on frozen sections and flow cytometry. Monoclonal antibody CRAM-18 F26 is also useful for inhibition of biological activity. The antibody cannot be used for Western blot and immunohistology on paraffin sections.
Use	For immunohistology and flow cytometry, 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. For inhibition of biological activity, dilutions have to be made according to the amounts of JAM-C to be inhibited.
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for 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 with the use of or derivation of this product.
References	<ol style="list-style-type: none">1. Aurrand-Lions, M et al; JAM-2, a novel immunoglobulin superfamily molecule, expressed by endothelial and lymphatic cells. <i>J Biol Chem</i> 2001, 276: 27332. Aurrand-Lions, M et al; Heterogeneity of endothelial junctions is reflected by differential expression and specific subcellular localization of the three JAM family members. <i>Blood</i> 2001, 98: 36993. Johnson-Leger, C et al; Junctional adhesion molecule-2 (JAM-2) promotes lymphocyte transendothelial migration. <i>Blood</i> 2002, 100: 2479
Also available	HM1056 Monoclonal antibody against Mouse JAM-C (JAM-2), clone CRAM-19 H36 HM1050 Monoclonal antibody against Mouse JAM-A (JAM-1), clone BV12 HM1052 Monoclonal antibody against Mouse Nectin-2, clone 502-57 HM1053 Monoclonal antibody against Mouse Nectin-3, clone 103-A1 HM3013 Monoclonal antibody against Rat L-Afadin, clone 3, cross reactive with mouse