


Anti-JAM-C antibody [19 H36] ab16889

Overview

Product name	Anti-JAM-C antibody [19 H36]
Description	Rat monoclonal [19 H36] to JAM-C
Host species	Rat
Tested applications	Suitable for: IHC-Fr, IP, Flow Cyt Unsuitable for: IHC-P or WB
Species reactivity	Reacts with: Mouse Predicted to work with: Human 
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
Positive control	High endothelial venules of lymphoid organs, lymphoendothelial cells and endothelial cells of the kidney
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium azide Constituents: PBS, 0.1% BSA
Purity	Protein G purified
Clonality	Monoclonal
Clone number	19 H36
Isotype	IgG2a

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab16889 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab18450 - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Application notes

Is unsuitable for IHC-P or WB.

Target

Function

Participates in cell-cell adhesion. It is a counterreceptor for ITGAM, mediating leukocyte-platelet interactions and is involved in the regulation of transepithelial migration of polymorphonuclear neutrophils (PMN). The soluble form is a mediator of angiogenesis.

Tissue specificity

Highest expression in placenta, brain and kidney. Significant expression is detected on platelets. Expressed in intestinal mucosa cells. Expressed in the vascular endothelium. Found in serum (at protein level). Also detected in the synovial fluid of patients with rheumatoid arthritis, psoriatic arthritis or osteoarthritis (at protein level).

Involvement in disease

Defects in JAM3 are the cause of hemorrhagic destruction of the brain with subependymal calcification and cataracts (HDBSCC) [MIM:613730]. A syndrome characterized by congenital cataracts and severe brain abnormalities apparently resulting from hemorrhagic destruction of the brain tissue, including the cerebral white matter and basal ganglia. Patients manifest profound developmental delay, and other neurologic features included seizures, spasticity, and hyperreflexia. Brain imaging shows multifocal intraparenchymal hemorrhage with associated liquefaction and massive cystic degeneration, and calcification in the subependymal region and in brain tissue.

Sequence similarities

Belongs to the immunoglobulin superfamily.
Contains 1 Ig-like C2-type (immunoglobulin-like) domain.
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Post-translational modifications

Proteolytically cleaved from endothelial cells surface into a soluble form by ADAM10 and ADAM17; the release of soluble JAM3 is increased by proinflammatory factors.

Cellular localization

Cell membrane. Cell junction > desmosome. Secreted > extracellular space. In epithelial cells, it is expressed at desmosomes but not at tight junctions. Localizes at the cell surface of endothelial cells; treatment of endothelial cells with vascular endothelial growth factor stimulates recruitment of JAM3 to cell-cell contacts.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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