abcam

Product datasheet

Anti-JAM-C antibody ab214194

1 References 1 Image

Overview

Product name	Anti-JAM-C antibody
Description	Rabbit polyclonal to JAM-C
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Rat **Predicted to work with:** Mouse, Human
Immunogen	Synthetic peptide within Human JAM-C aa 1-100 conjugated to keyhole limpet haemocyanin. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Database link: **Q9BX67** Run BLAST with Run BLAST with
Positive control	Rat brain tissue.
General notes	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. 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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 1% BSA, 48.98% TBS, 1X
Purity	Protein A purified
Clonality	Polyclonal

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab214194 in the following tested applications.

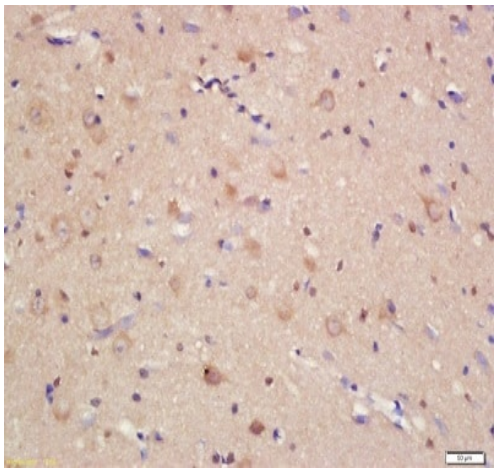
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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 ostearthritis (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 recruitement of JAM3 to cell-cell contacts.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-JAM-C antibody (ab214194)

Immunohistochemical analysis of formalin-fixed and paraffin-embedded rat brain tissue labeling JAM-C with ab214194 at 1/200 dilution, followed by conjugation to the secondary antibody and DAB staining.

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