

JAM3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6766b**Specification**

JAM3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9BX67](#)**JAM3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 83700**Other Names**

Junctional adhesion molecule C, JAM-C, JAM-2, Junctional adhesion molecule 3, JAM-3, JAM3

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6766b](/products/AP6766b) was selected from the C-term region of human JAM3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

JAM3 Antibody (C-term) Blocking Peptide - Protein Information**Name** JAM3**Function**

Junctional adhesion protein that mediates heterotypic cell-cell interactions with its cognate receptor JAM2 to regulate different cellular processes (PubMed: [11590146](http://www.uniprot.org/citations/11590146), PubMed: [11823489](http://www.uniprot.org/citations/11823489)). Plays a role in homing and mobilization of hematopoietic stem and progenitor cells within the bone marrow. At the surface of bone marrow stromal cells, it contributes to the retention of the hematopoietic stem and progenitor cells expressing JAM3 (PubMed: [11590146](http://www.uniprot.org/citations/11590146), PubMed: [24357068](http://www.uniprot.org/citations/24357068)). Plays a central role in leukocytes extravasation by facilitating transmigration through the endothelium (By similarity). Plays a role in spermatogenesis where JAM2 and JAM3, which are respectively expressed by Sertoli and germ cells, mediate an interaction between both cell types and play an

essential role in the anchorage of germ cells onto Sertoli cells and the assembly of cell polarity complexes during spermatid differentiation (By similarity). Also functions as a counter- receptor for ITGAM, mediating leukocyte-platelet interactions and is involved in the regulation of transepithelial migration of polymorphonuclear neutrophils (PMN) (PubMed:12208882, PubMed:15194813). Plays a role in angiogenesis (PubMed:23255084). Plays a role in the regulation of cell migration (Probable). During myogenesis, it is involved in myocyte fusion (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell junction. Cell junction, desmosome. Cell junction, tight junction. Note=Detected in the acrosome region in developing spermatids (By similarity). In epithelial cells, it is expressed at desmosomes but not at tight junctions (PubMed:15194813) 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 (PubMed:15994945) {ECO:0000250|UniProtKB:Q9D8B7}

Tissue Location

Detected on round and elongated spermatids (at protein level) (PubMed:15372036). 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).

JAM3 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

JAM3 Antibody (C-term) Blocking Peptide - Images

JAM3 Antibody (C-term) Blocking Peptide - Background

JAM3 may participate in cell-cell adhesion distinct from tight junctions.

JAM3 Antibody (C-term) Blocking Peptide - References

Liang,T.W., et.al., J. Immunol. 168 (4), 1618-1626 (2002)