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AMICA1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP17456a

Specification

AMICA1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q86YT9

AMICA1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 120425

Other Names
Junctional adhesion molecule-like, Adhesion molecule interacting with CXADR antigen 1, Dendritic cell-specific protein CREA7-1, AMICA1, JAML

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.

AMICA1 Antibody (N-term) Blocking Peptide - Protein Information

Name JAML (HGNC:19084)

Synonyms AMICA1

Function
Transmembrane protein of the plasma membrane of leukocytes that control their migration and activation through interaction with CXADR, a plasma membrane receptor found on adjacent epithelial and endothelial cells. The interaction between both receptors mediates the activation of gamma-delta T-cells, a subpopulation of T-cells residing in epithelia and involved in tissue homeostasis and repair. Upon epithelial CXADR-binding, JAML induces downstream cell signaling events in gamma-delta T-cells through PI3-kinase and MAP kinases. It results in proliferation and production of cytokines and growth factors by T- cells that in turn stimulate epithelial tissues repair. It also controls the transmigration of leukocytes within epithelial and endothelial tissues through adhesive interactions with epithelial and endothelial CXADR.

Cellular Location
Cell membrane; Single-pass type I membrane protein. Cell junction. Note=Localized at the plasma membrane and enriched in areas of cell-cell contacts (PubMed:12869515)

Tissue Location

Expression is restricted to the hematopoietic tissues with the exception of liver. Expressed in fetal liver, spleen and thymus. Preferentially expressed by mature leukocytes (at protein level).

AMICA1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

AMICA1 Antibody (N-term) Blocking Peptide - Images

AMICA1 Antibody (N-term) Blocking Peptide - Background

AMICA1 may function in transmigration of leukocytes through epithelial and endothelial tissues. Expressed at the plasma membrane of polymorphonuclear leukocytes, it mediates adhesive interactions with CXADR, a protein of the junctional complex of epithelial cells. Enhances myeloid leukemia cell adhesion to endothelial cells.

AMICA1 Antibody (N-term) Blocking Peptide - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :Luissint, A.C., et al. J. Cell Biol. 183(6):1159-1173(2008)Zen, K., et al. Mol. Biol. Cell 16(6):2694-2703(2005)Zhang, Z., et al. Protein Sci. 13(10):2819-2824(2004)Moog-Lutz, C., et al. Blood 102(9):3371-3378(2003)