

CD164 Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP21047a

Specification

CD164 Blocking Peptide (C-term) - Product Information

Primary Accession

[Q04900](#)**CD164 Blocking Peptide (C-term) - Additional Information**

Gene ID 8763

Other Names

Sialomucin core protein 24, MUC-24, Endolyn, Multi-glycosylated core protein 24, MGC-24, MGC-24v, CD164, CD164

Target/Specificity

The synthetic peptide sequence is selected from aa 152-165 of HUMAN CD164

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.

CD164 Blocking Peptide (C-term) - Protein Information

Name CD164

Function

Sialomucin that may play a key role in hematopoiesis by facilitating the adhesion of CD34(+) cells to the stroma and by negatively regulating CD34(+)CD38(lo/-) cell proliferation. Modulates the migration of umbilical cord blood CD133+ cells and this is mediated through the CXCL12/CXCR4 axis. May play an important role in prostate cancer metastasis and the infiltration of bone marrow by cancer cells. Promotes myogenesis by enhancing CXCR4-dependent cell motility. Positively regulates myoblast migration and promotes myoblast fusion into myotubes (By similarity).

Cellular Location

Lysosome membrane; Single-pass type I membrane protein Endosome membrane; Single-pass type I membrane protein. Cell membrane; Single-pass type I membrane protein

Tissue Location

Isoform 1 and isoform 3 are expressed in hematopoietic and non-hematopoietic tissues. Isoform 1 is expressed by prostate cancer tumors and prostate cancer cell lines. The expression is greater in

bone metastases than in primary tumors. Expression in osseous metastasis is greater than that in soft tissue metastasis. Isoform 2 is expressed in the small intestine, colon, lung, thyroid and in colorectal and pancreatic adenocarcinoma. Isoform 4 is expressed by both hematopoietic progenitor cells and bone marrow stromal cells

CD164 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

CD164 Blocking Peptide (C-term) - Images

CD164 Blocking Peptide (C-term) - Background

Sialomucin that may play a key role in hematopoiesis by facilitating the adhesion of CD34(+) cells to the stroma and by negatively regulating CD34(+)CD38(lo/-) cell proliferation. Modulates the migration of umbilical cord blood CD133+ cells and this is mediated through the CXCL12/CXCR4 axis. May play an important role in prostate cancer metastasis and the infiltration of bone marrow by cancer cells. Promotes myogenesis by enhancing CXCR4-dependent cell motility. Positively regulates myoblast migration and promotes myoblast fusion into myotubes (By similarity).

CD164 Blocking Peptide (C-term) - References

Masuzawa Y., et al. J. Biochem. 112:609-615(1992).
Zannettino A.C.W., et al. Blood 92:2613-2628(1998).
Doyonnas R., et al. J. Immunol. 165:840-851(2000).
Chan J.Y.-H., et al. J. Biol. Chem. 276:2139-2152(2001).
Ota T., et al. Nat. Genet. 36:40-45(2004).