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CD164 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21047a

Product Information

Application	WB, E
Primary Accession	Q04900
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB51644
Calculated MW	20917

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	This CD164 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 152-185 amino acids from the C-terminal region of human CD164.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CD164 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

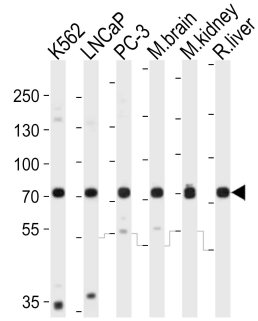
Background

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).

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).

Images



Western blot analysis of lysates from K562, LNCaP, PC-3 cell line, mouse brain, mouse kidney, rat liver tissue lysate (from left to right), using CD164 Antibody (C-term)(Cat. #AP21047a). AP21047a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.