

CD164 Polyclonal Antibody

Catalog number: 12083-2-AP

Size: 58 µg/150 µl

Source: Rabbit

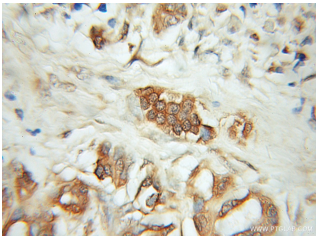
Isotype: IgG

Synonyms:

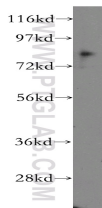
CD164; CD164, CD164 molecule,

sialomucin, endolyn, MUC 24,

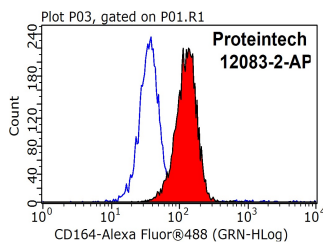
Sialomucin core protein 24



Immunohistochemical of paraffin-embedded human pancreas cancer using 12083-2-AP (CD164 antibody) at dilution of 1:50 (under 10x lens)



K-562 cells were subjected to SDS PAGE followed by western blot with 12083-2-AP (CD164 antibody) at dilution of 1:300



1X10⁶ K-562 cells were stained with 0.2µg CD164 antibody (12083-2-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

Background

Sialomucins are a heterogeneous group of secreted or membrane-associated mucins that appear to play 2 key but opposing roles in vivo: first as cytoprotective or antiadhesive agents, and second as adhesion receptors. CD164 is a type I integral transmembrane sialomucin that functions as an adhesion receptor (PMID: 9680353)(PMID: 17077324). Sialomucin CD164 (MUC-24), also referred to multi-glycosylated core protein 24 (MGC24), is known to function as a receptor that regulates stem cell localization to the bone marrow. CD164 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. Important role of CD164 in prostate cancer metastasis, promoting myogenesis and regulating myoblast migration so far have been revealed (PMID: 9763543)(PMID: 16859559)(PMID: 17077324).

Applications

Tested applications:	ELISA, IHC, WB, FC
Species specificity:	Human; other species not tested.
Calculated CD164 MW:	197aa, 21 kDa
Observed CD164 MW:	82 kDa
Positive WB detected in	K-562 cells
Positive IHC detected in	Human pancreas cancer tissue
Positive FC detected in	K-562 cells
Recommended dilution:	WB: N/A
	IHC: 1:20-1:200
	FC: N/A

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag2715
GenBank accession number:	BC011522
Gene ID (NCBI):	8763
Full name:	CD164 molecule, sialomucin

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.