

For Research Use Only

# CD164 Polyclonal antibody

Catalog Number: 12083-2-AP



## Basic Information

<b>Catalog Number:</b> 12083-2-AP	<b>GenBank Accession Number:</b> BC011522	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 800 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8763	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> CD164 molecule, sialomucin	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 197 aa, 21 kDa	
<b>Immunogen Catalog Number:</b> AG2715	<b>Observed MW:</b> 82 kDa	

## Applications

<b>Tested Applications:</b> FC, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> BxPC-3 cells, U-87 MG cells <b>IHC :</b> human pancreas cancer tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

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).

## Storage

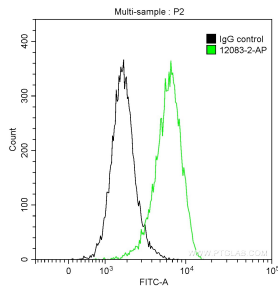
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

**\*\*\* 20ul sizes contain 0.1% BSA**

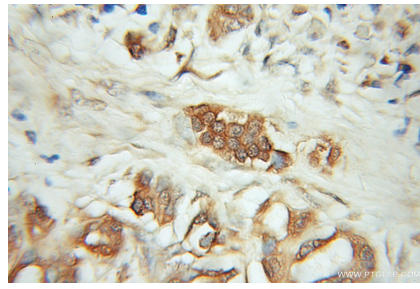
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

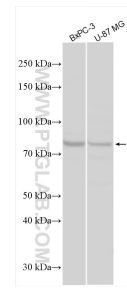
## Selected Validation Data



1X10<sup>6</sup> K-562 cells were intracellularly stained with 0.5 ug Anti-Human CD164 (12083-2-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.5 ug Control Antibody. Cells were fixed with 90% MeOH.



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



Various lysates were subjected to SDS PAGE followed by western blot with 12083-2-AP (CD164 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.