

CD164 Recombinant monoclonal antibody

Catalog Number: 85723-4-RR

Basic Information

Catalog Number: 85723-4-RR	GenBank Accession Number: NM_016898.2	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 53599	CloneNo.: 242986G5
Isotype: IgG	UNIPROT ID: Q9R0L9	Recommended Dilutions: WB: 1:1000-1:4000 IHC: 1:500-1:2000 IF/ICC: 1:200-1:800
Immunogen Catalog Number: EG2645	Full Name: CD164 antigen	
	Calculated MW: 21 kDa	
	Observed MW: 80 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: mouse	WB : mouse liver tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse kidney tissue,
	IF/ICC : RM-1 cells,

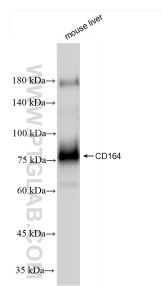
Background Information

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).

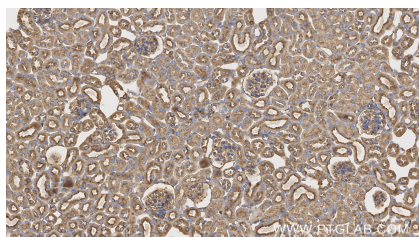
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

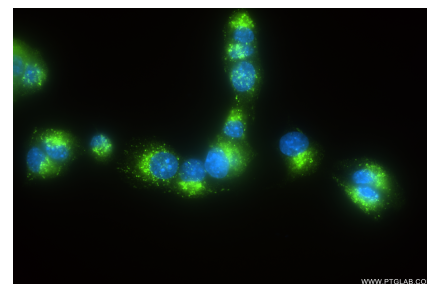
Selected Validation Data



mouse liver tissue was subjected to SDS PAGE followed by western blot with 85723-4-RR (CD164 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 85723-4-RR (CD164 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed RM-1 cells using CD164 antibody (85723-4-RR, Clone: 242986G5) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).