

CD44 Recombinant antibody

Catalog Number: 84369-5-RR

Basic Information

Catalog Number:

84369-5-RR

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

XM_006234631.3

GeneID (NCBI):

25406

UNIPROT ID:

O70509

Full Name:

Cd44 molecule

Calculated MW:

40 kDa

Observed MW:

80 kDa

Purification Method:

Protein A purification

CloneNo.:

241648D1

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:400-1:1600

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

rat

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

Positive Controls:

WB : rat spleen tissue,

IHC : rat spleen tissue,

IF/ICC : NR8383 cells,

Background Information

CD44 is a type I transmembrane glycoprotein expressed on embryonic stem cells and in various levels on other cell types including connective tissues and bone marrow. CD44 expression is also upregulated in subpopulations of cancer cells and is recognized as a molecular marker for cancer stem cells (PMID: 29747682). It is a cell-surface receptor that mediates cell-cell and cell-matrix interactions through its affinity for hyaluronic acid (HA) and possibly also through its affinity for other ligands (PMID: 10694938). Adhesion with HA plays an important role in cell migration, tumor growth and progression. CD44 is also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis.

Storage

Storage:

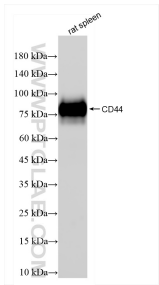
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

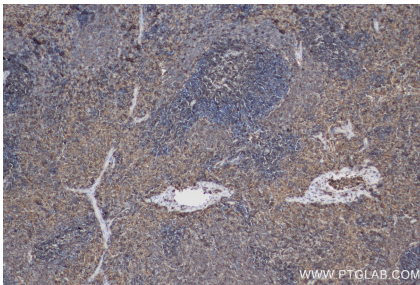
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

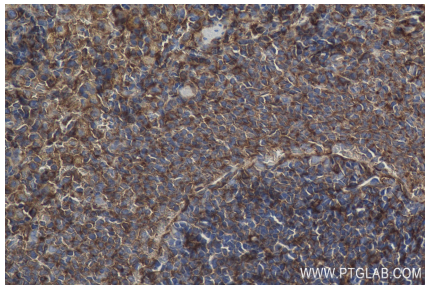
Selected Validation Data



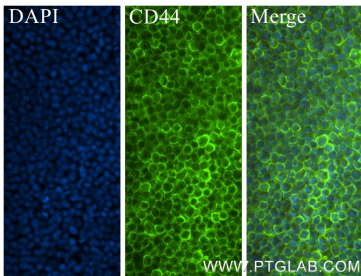
rat spleen tissue was subjected to SDS PAGE followed by western blot with 84369-5-RR (CD44 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



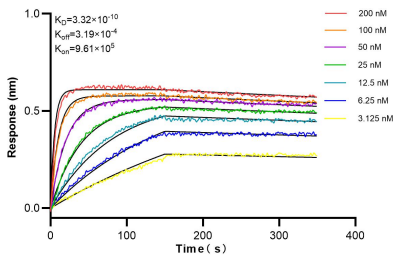
Immunohistochemical analysis of paraffin-embedded rat spleen tissue slide using 84369-5-RR (CD44 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat spleen tissue slide using 84369-5-RR (CD44 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed NR8383 cells using CD44 antibody (84369-5-RR, Clone: 241648D1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 84369-5-RR against Rat CD44 were performed. The affinity constant is 0.332 nM.