

For Research Use Only

# CD44 Recombinant antibody

Catalog Number: 84854-5-RR



## Basic Information

<b>Catalog Number:</b> 84854-5-RR	<b>GenBank Accession Number:</b> NM_000610.3	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 960	<b>CloneNo.:</b> 242345G11
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000026508	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:200-1:800 IF/ICC 1:250-1:1000
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P16070-1	
	<b>Full Name:</b> CD44 molecule (Indian blood group)	
	<b>Calculated MW:</b> 82 kDa	
	<b>Observed MW:</b> 80-95 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HeLa cells, MDA-MB-231 cells, A549 cells, PC-3 cells, PANC-1 cells
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> human colon cancer tissue,
	<b>IF/ICC :</b> A431 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

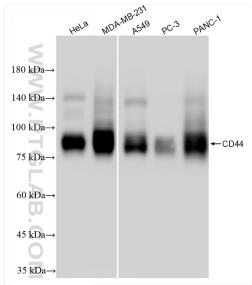
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

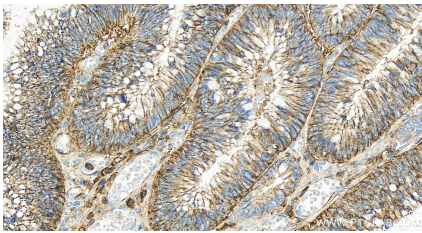
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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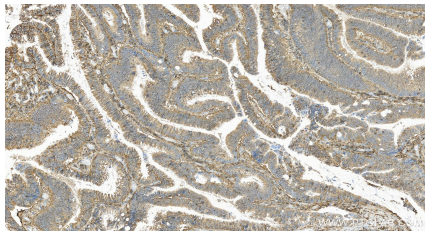
Selected Validation Data



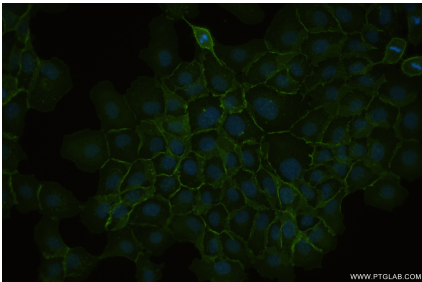
Various lysates were subjected to SDS PAGE followed by western blot with 84854-5-RR (CD44 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



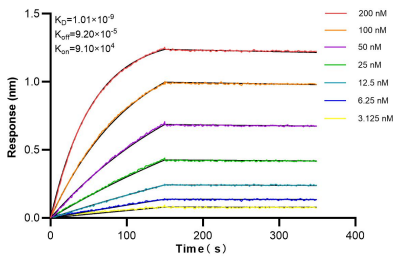
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84854-5-RR (CD44 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84854-5-RR (CD44 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using CD44 antibody (84854-5-RR, Clone: 242345G11 ) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 84854-5-RR against Human CD44 were performed. The affinity constant is 1.01 nM.