

For Research Use Only

# CD44 Polyclonal antibody

Catalog Number: 15675-1-AP

Featured Product

378 Publications



## Basic Information

### Catalog Number:

15675-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8143

### GenBank Accession Number:

BC004372

### GeneID (NCBI):

960

### ENSEMBL Gene ID:

ENSG00000026508

### UNIPROT ID:

P16070

### Full Name:

CD44 molecule (Indian blood group)

### Calculated MW:

742 aa, 82 kDa

### Observed MW:

80-95 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:20000-1:100000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:500-1:2000

IF-P: 1:50-1:500

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, ColP, Neutralization

### Species Specificity:

human

### Cited Species:

human, bovine, sika deer

**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: A549 cells, HeLa cells, HUVEC cells, MDA-MB-231 cells

IP: HeLa cells,

IHC: human lung cancer tissue, human colon cancer tissue, human oesophagus cancer tissue

IF-P: human colon cancer tissue,

IF/ICC: HeLa cells, human colon cancer tissue, A375 cells, HUVEC cells, UCMSCs cells

## Background Information

CD44 is a type I transmembrane glycoprotein that mediates cell-cell and cell-matrix interactions through its affinity for hyaluronic acid (HA) and possibly also through its affinity for other ligands. 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. This protein exists in multiple forms (with molecular weight ranging from 16 kDa to over 200 kDa) generated by alternative RNA splicing and extensive post-translational modifications.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lei Liu	27729869	Front Physiol	WB
Yuting He	30288117	Cancer Manag Res	IHC, IF, WB
Rong Ding	34553339	J Physiol Biochem	WB, IHC

## 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

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

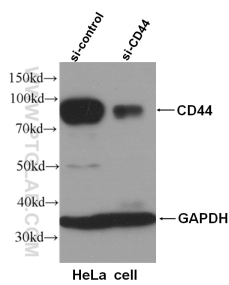
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

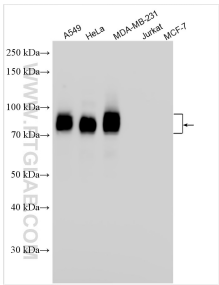
E: proteintech@ptglab.com  
W: ptglab.com

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

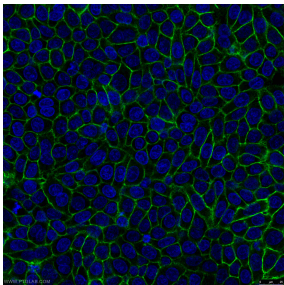
Selected Validation Data



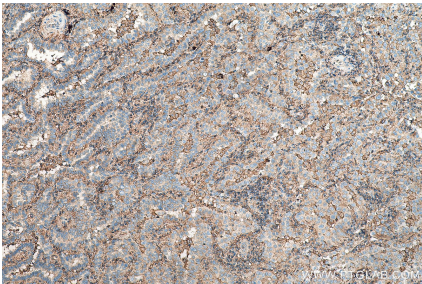
WB result of CD44 antibody (15675-1-AP, 1:6000) with si-Control and si-CD44 transfected HeLa cells.



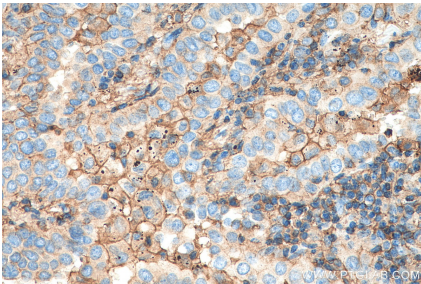
Various lysates were subjected to SDS PAGE followed by western blot with 15675-1-AP (CD44 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



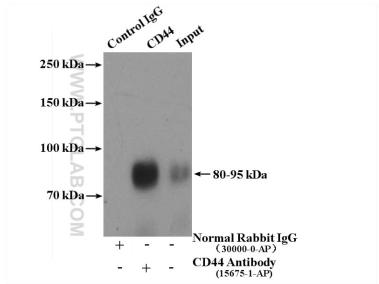
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 15675-1-AP (CD44 antibody) at dilution of 1:200 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



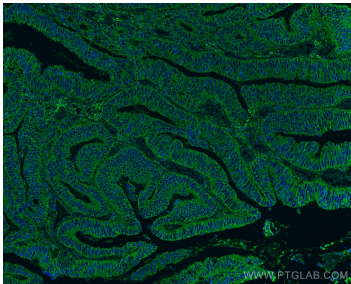
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15675-1-AP (CD44 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



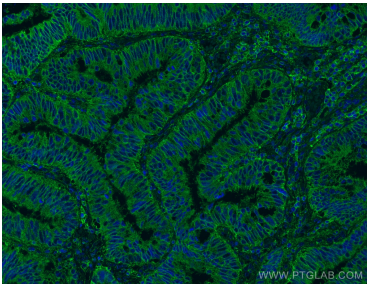
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15675-1-AP (CD44 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CD44 (IP:15675-1-AP, 4ug; Detection:15675-1-AP 1:2000) with HeLa cells lysate 2400ug.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human colon cancer tissue using CD44 antibody (15675-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human colon cancer tissue using CD44 antibody (15675-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).