

For Research Use Only

# CD44 Monoclonal antibody

Catalog Number: 60224-1-Ig

Featured Product

59 Publications



## Basic Information

### Catalog Number:

60224-1-Ig

### Size:

150ul, Concentration: 1500 ug/ml by Nanodrop and 868 ug/ml by Bradford method using BSA as the standard;

### Source:

Mouse

### Isotype:

IgG2a

### Immunogen Catalog Number:

AG7633

### 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:

Protein A purification

### CloneNo.:

6F4H2

### Recommended Dilutions:

WB 1:5000-1:50000

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

IHC 1:200-1:1000

IF-P 1:200-1:800

IF/ICC 1:400-1:1600

## Applications

### Tested Applications:

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

### Cited Applications:

WB, IHC, IF, ELISA

### Species Specificity:

human, pig

### Cited Species:

human, rat, pig, rabbit

**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: MDA-MB-231 cells, human spleen tissue, HeLa cells, A549 cells, U-251 cells, HUVEC cells, pig spleen tissue

IP: HeLa cells,

IHC: human lung cancer tissue, human breast cancer tissue, human oesophagus cancer tissue, human tonsillitis tissue

IF-P: human colon cancer tissue,

IF/ICC: A431 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
Hongying Chen	34702291	J Nanobiotechnology	WB
Yuan Cao	31448319	Adv Mater Technol	IF
Yilu Qin	33511005	Adv Sci (Weinh)	IHC,IF

## 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

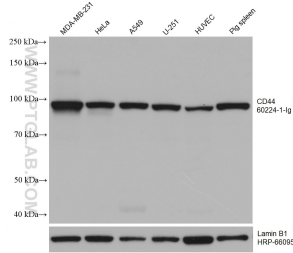
For technical support and original validation data for this product please contact:

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

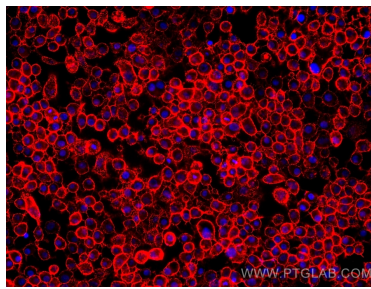
E: proteintech@ptglab.com  
W: ptglab.com

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

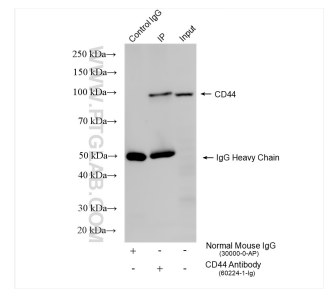
## Selected Validation Data



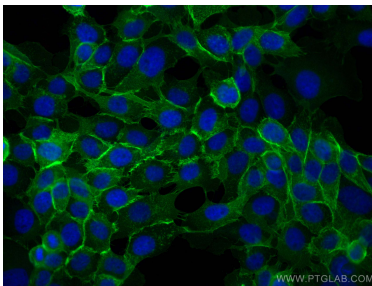
Various lysates were subjected to SDS PAGE followed by western blot with 60224-1-Ig (CD44 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



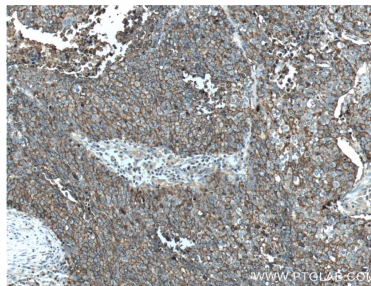
Immunofluorescent analysis of un-fixed A431 cells using CD44 antibody (60224-1-Ig, Clone: 6F4H2) at dilution of 1:1800 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



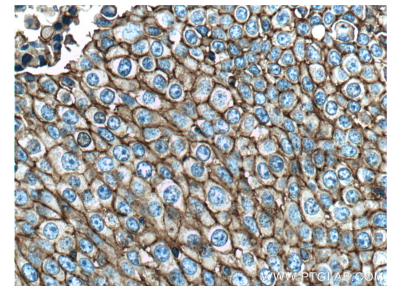
IP result of anti-CD44 (IP:60224-1-Ig, 4ug; Detection:60224-1-Ig 1:3000) with HeLa cells lysate 1280 ug.



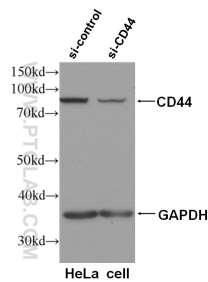
Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using CD44 antibody (60224-1-Ig, Clone: 6F4H2) at dilution of 1:800 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).



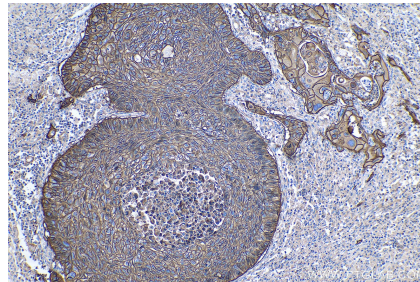
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60224-1-Ig (CD44 Antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



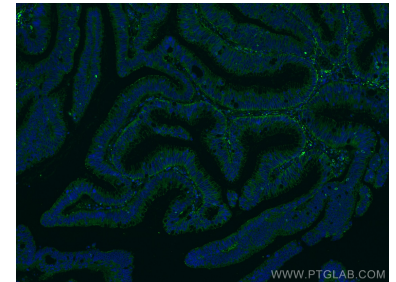
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60224-1-Ig (CD44 Antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



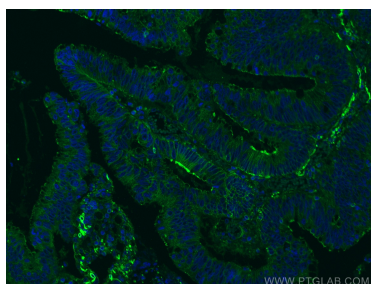
WB result of CD44 antibody (60224-1-Ig, 1:4000) with si-Control and si-CD44 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60224-1-Ig (CD44 antibody) at dilution of 1:10000 (under 10x lens). 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 (60224-1-Ig, Clone: 6F4H2) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). 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 (60224-1-Ig, Clone: 6F4H2 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).