

## CD44 Monoclonal Antibody

### Description

<b>Product type</b>	Antibody
<b>Code</b>	BT-MCA3322
<b>Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1
<b>Size</b>	100μL, 50μL
<b>Immunogen</b>	Purified recombinant fragment of human CD44 (628-699) expressed in E. Coli.
<b>Mol wt</b>	82kDa
<b>Species reactivity</b>	Human,Mouse
<b>Clonality</b>	Monoclonal
<b>Recommended application</b>	IHC,ICC,FCM
<b>Concentration</b>	N/A
<b>Full name</b>	N/A
<b>Synonyms</b>	IN;LHR;MC56;MDU2;MDU3;MIC4;Pgp1;CDW44;CSPG8;HCELL

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

### Background

CD44, also known as IN, LHRMIC4, CDW44, HCELL. It is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis.

### Recommended Dilution

WB: 1:500 - 1:2000

IHC-p: 1:200 - 1:1000

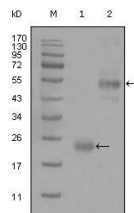
ICC: 1:200 - 1:1000

FCM: 1:200 - 1:400

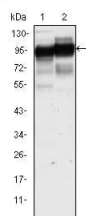
ELISA: 1:10000

Not yet tested in other applications.

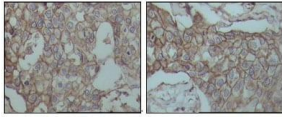
### Images



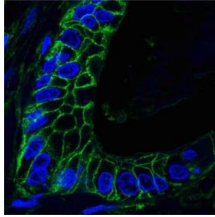
Western blot analysis using CD44 mouse mAb against truncated Trx-CD44 recombinant protein (1) and GST-CD44 (aa628-699) recombinant protein (2).



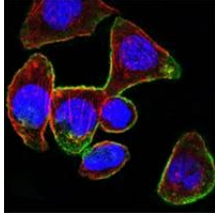
Western blot analysis using CD44 mouse mAb against HeLa (1) and HUVE-12(2) cell lysate.



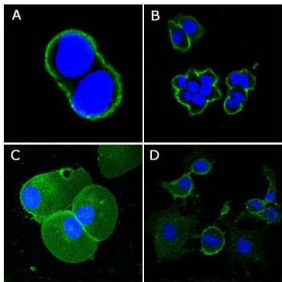
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissues, showing membrane localization with DAB staining using CD44 mouse mAb.



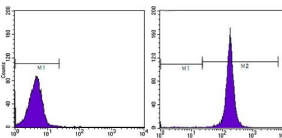
Confocal analysis of paraffin-embedded human lung cancer tissues using CD44 mouse mAb (green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.



Confocal Immunofluorescence analysis of PANC-1 cells using CD44 mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



Confocal Immunofluorescence analysis of methanol-fixed A431 (A), HeLa (B), PANC-1 (C) and EC (D) cells using CD44 mouse mAb (green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.



Flow cytometric analysis of HeLa cells using CD44 mouse mAb (right) and negative control (left).

## Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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