

Product Name: CD44 Mouse Monoclonal Antibody
Catalog #: AMM80695



Summary

Production Name	CD44 Mouse Monoclonal Antibody
Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,ELISA,FC
Reactivity	Human,Mouse,Rat,Monkey

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Immunogen

Gene Name	CD44
Alternative Names	IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1; CDW44; CSPG8; HCELL
Gene ID	960.0
SwissProt ID	P16070.Purified recombinant fragment of human CD44 (628-699) expressed in E. Coli.

Application

Dilution Ratio	WB 1:500-1:1000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	82kDa

Background

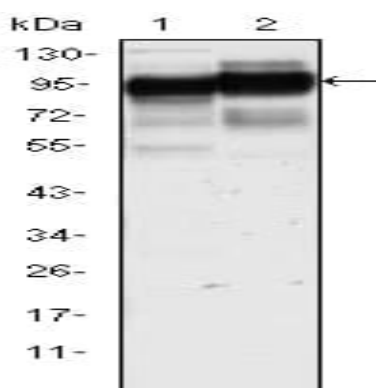
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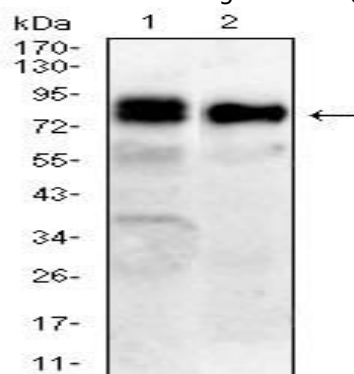
CD44, also known as IN, LHRMIC4, CDW44, HCELL. It is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This 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.

Research Area

Image Data

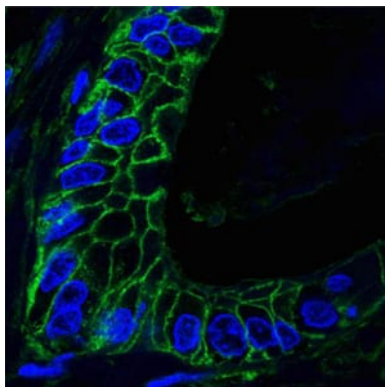


Western blot analysis using CD44 mouse mAb against Hela (1) and HUVE-12(2) cell lysate.

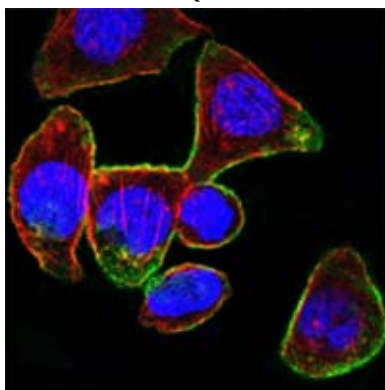


Western blot analysis using CD44 mouse mAb against COS7(1),C6(2) cell lysate.

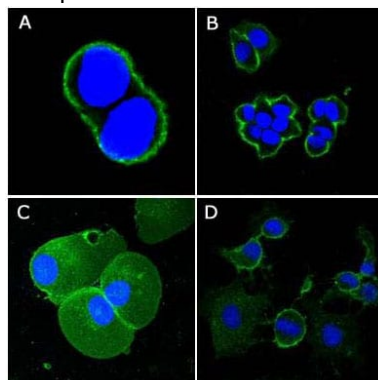
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Confocal analysis of paraffin-embedded human lung cancer tissues using CD44 mouse mAb (green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.

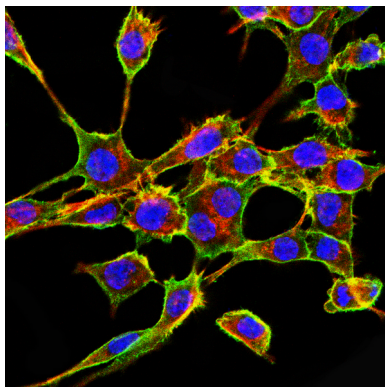


Confocal Immunofluorescence analysis of PANC-1 cells using CD44 mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

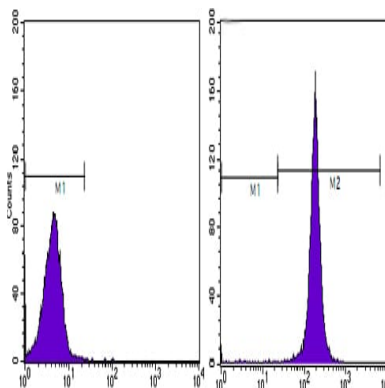


Confocal Immunofluorescence analysis of methanol-fixed A431 (A), Hela (B), PANC-1 (C) and EC (D) cells using CD44 mouse mAb (green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.

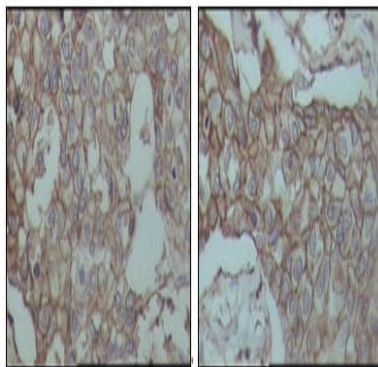
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Immunofluorescence analysis of RSC-96 cells using CD44 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

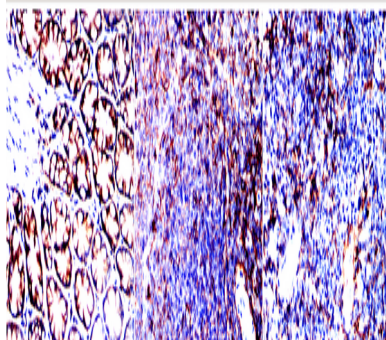


Flow cytometric analysis of Hela cells using CD44 mouse mAb (right) and negative control (left).



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

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Immunohistochemical analysis of paraffin-embedded Rat colon(A) Rat spleen(B) Rat thymus(C) using CD44 mouse mAb with DAB staining.

Note

For research use only.