

Product datasheet for **AM06286SU-N**

CD44 Mouse Monoclonal Antibody [Clone ID: 8E2F3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	8E2F3
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	ELISA: 1/10000. Western Blot: 1/500-1/2000. Immunofluorescence: 1/200-1/1000. Flow Cytometry: 1/200-1/400. Immunohistochemistry on Paraffin Sections: 1/200-1/1000.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human CD44 (628-699) expressed in E. Coli.
Specificity:	Recognizes CD44
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	82 kDa
Gene Name:	CD44 molecule (Indian blood group)
Database Link:	Entrez Gene 960 Human P16070



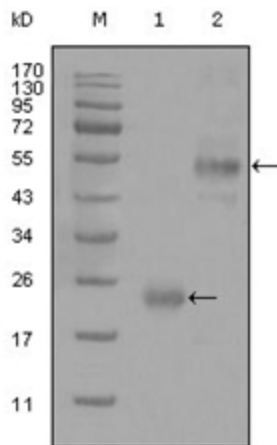
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Background:

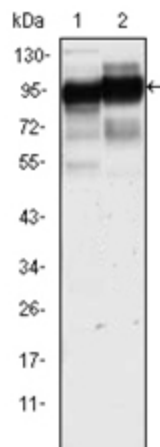
CD44, also known as IN, LHRMIC4, CDW44, HCELL is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This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

Synonyms:

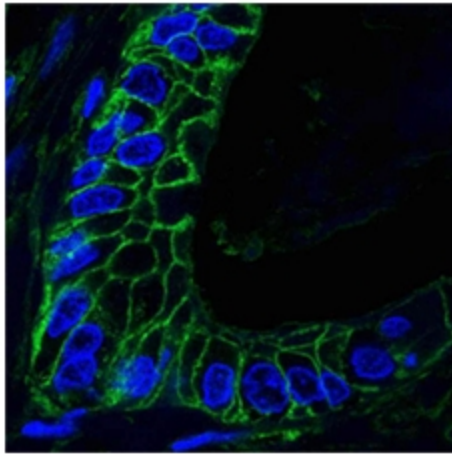
LHR, MDU2, MDU3, MIC4, CDw44, Epican, ECMR-III, HUTCH-I, Heparan sulfate proteoglycan, Hermes antigen, Hyaluronate receptor, PGP-1

Product images:


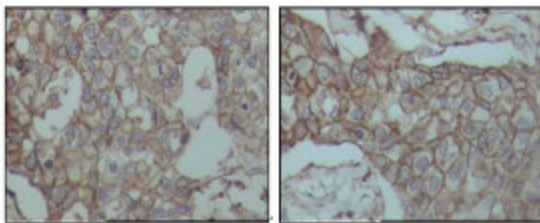
Western blot analysis using CD44 mouse mAb against truncated Trx-CD44 recombinant protein (1) and GST-CD44 (aa628-699) recombinant protein (2).



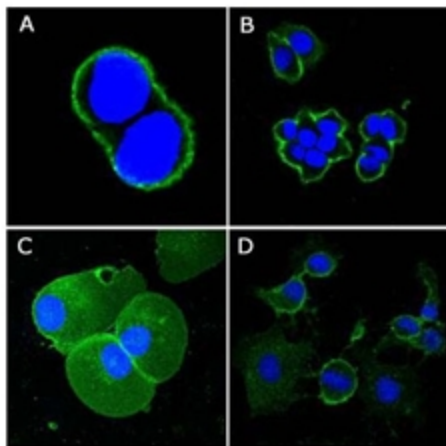
Western blot analysis using CD44 mouse mAb against HeLa (1) and HUVE-12 (2) cell lysate.



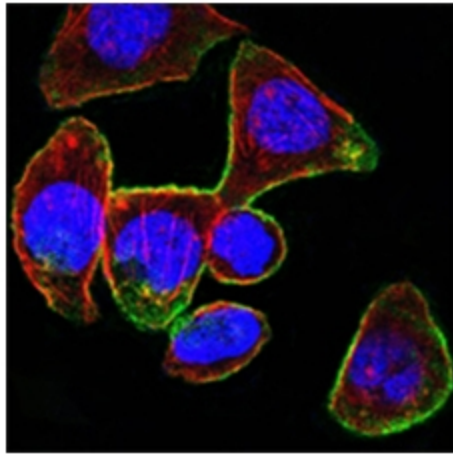
Confocal analysis of paraffin-embedded human lung cancer tissues using CD44 mouse mAb (green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.



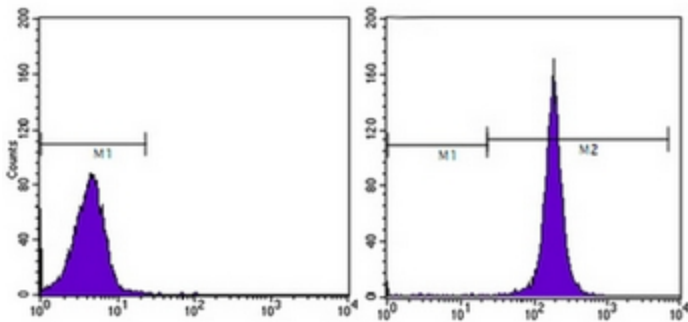
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissues, showing membrane localization with DAB staining using CD44 mouse mAb



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.



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.



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