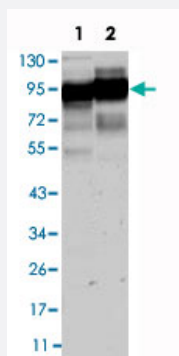


CD44 monoclonal antibody, clone 8E2F3

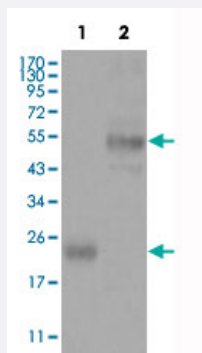
Catalog # MAB10538 Size 100 uL

Applications



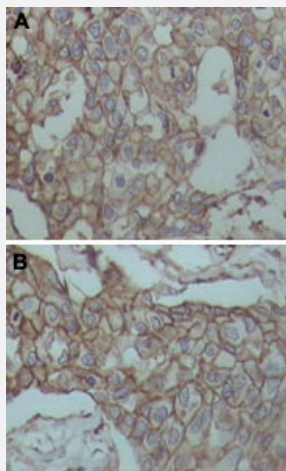
Western Blot (Cell lysate)

Western blot analysis using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538) against HeLa (1) and HUVE-12(2) cell lysate.



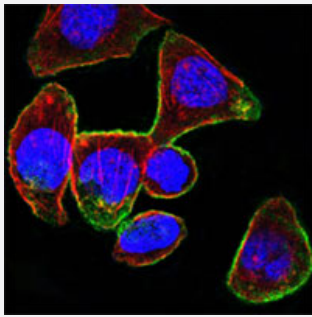
Western Blot (Recombinant protein)

Western blot analysis using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538) against truncated Trx-CD44 recombinant protein (1) and GST-CD44 (aa 628-699) recombinant protein (2).



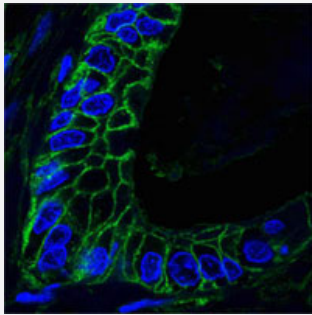
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissues, showing membrane localization with DAB staining using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538).



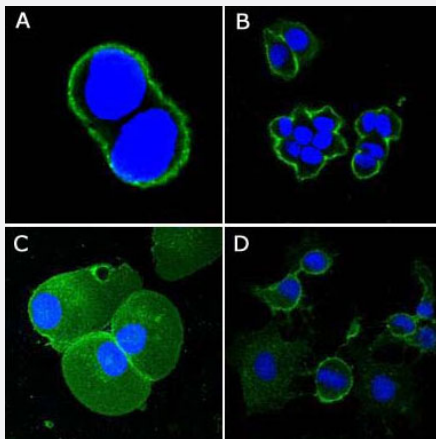
Immunofluorescence

Confocal immunofluorescence analysis of PANC-1 cells using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538) (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



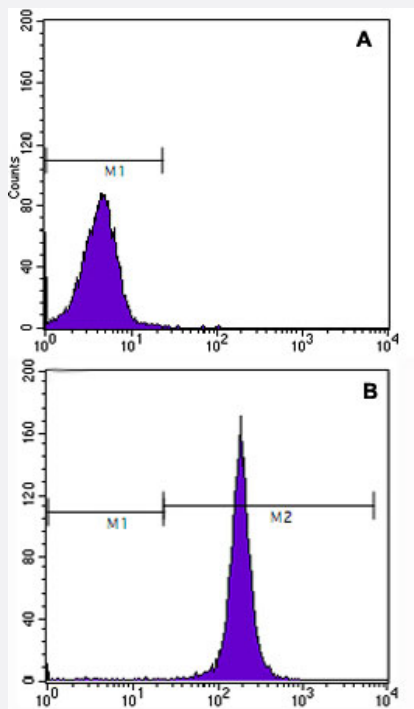
Immunofluorescence

Confocal analysis of paraffin-embedded human lung cancer tissues using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538) (green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.



Immunofluorescence

Confocal immunofluorescence analysis of methanol-fixed A-431 (A), HeLa (B), PANC-1 (C) and EC (D) cells using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538) (green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.



Flow Cytometry

Flow cytometric analysis of HeLa cells using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538) (A) and negative control (B).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant CD44.
Immunogen	Recombinant protein corresponding to amino acids 628-699 of human CD44.
Host	Mouse
Theoretical MW (kDa)	82
Reactivity	Human, Mouse
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Immunofluorescence (1:200-1:1000) Flow cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538) against HeLa (1) and HUVE-12(2) cell lysate.

- Western Blot (Recombinant protein)

Western blot analysis using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538) against truncated Trx-CD44 recombinant protein (1) and GST-CD44 (aa 628-699) recombinant protein (2).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissues, showing membrane localization with DAB staining using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538).

- Immunofluorescence

Confocal immunofluorescence analysis of PANC-1 cells using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538) (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

- Immunofluorescence

Confocal analysis of paraffin-embedded human lung cancer tissues using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538) (green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.

- Immunofluorescence

Confocal immunofluorescence analysis of methanol-fixed A-431 (A), HeLa (B), PANC-1 (C) and EC (D) cells using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538) (green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of HeLa cells using CD44 monoclonal antibody, clone 8E2F3 (Cat # MAB10538) (A) and negative control (B).

Gene Info — CD44

Entrez GeneID

[960](#)

Gene Name	CD44
Gene Alias	CDW44, CSPG8, ECMR-III, HCELL, IN, LHR, MC56, MDU2, MDU3, MGC10468, MIC4, MUTCH-I, Pgp1
Gene Description	CD44 molecule (Indian blood group)
Omim ID	107269
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene 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. [provided by RefSeq]
Other Designations	CD44 antigen CD44 antigen (homing function and Indian blood group system) CDW44 antigen GP90 lymphocyte homing/adhesion receptor Hermes antigen antigen gp90 homing receptor cell adhesion molecule cell surface glycoprotein CD44 chondroitin sulfate proteoglycan

Publication Reference

- [miR-142-3p is a tumor suppressor that inhibits estrogen receptor expression in ER-positive breast cancer.](#)

Behzad Mansoori, Ali Mohammadi, Morten F Gjerstorff, Solmaz Shirjang, Zahra Asadzadeh, Vahid Khaze, Uffe Holmskov, Tohid Kazemi, Pascal H G Duijf, Behzad Baradaran.

Journal of Cellular Physiology 2019 Sep; 234(9):16043.

Application: WB-Tr, Human, MCF-7 cells

Pathway

- [ECM-receptor interaction](#)
- [Hematopoietic cell lineage](#)

Disease

- [Arthritis](#)

- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Craniofacial Abnormalities](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Heart Defects](#)
- [Hepatitis B](#)
- [Kidney Failure](#)
- [Mouth Abnormalities](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Ovarian Neoplasms](#)