

CD44 Monoclonal Antibody (8E2F3)

Catalog NumberMA5-15462

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse
Host/Isotope	Mouse / IgG1	Published species	Mouse, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	1:10,000
Clone	8E2F3	Flow Cytometry (Flow)	1:200-1:400
Immunogen	Purified recombinant fragment of human CD44 (628-699) expressed in E. Coli.	Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:1,000
Conjugate	Unconjugated	Western Blot (WB)	1:500-1:2,000
Form	Liquid	Immunocytochemistry (ICC/IF)	1:200-1:1,000
Concentration	Conc. Not Determined	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage buffer	ascites		
Contains	0.03% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

MA5-15462 targets CD44 in indirect ELISA, FACS, IF, IHC, and WB applications and shows reactivity with Human and mouse samples. The MA5-15462 immunogen is purified recombinant fragment of human CD44 (628-699) expressed in E. Coli. MA5-15462 detects CD44 which has a predicted molecular weight of approximately 82kDa.

Background/Target Information

CD44 cell surface antigen is a 100 kDa type 1 transmembrane glycoprotein widely expressed on human leucocytes, white matter of the brain and by some epithelial cells of the intestine and breast. Several isoforms of CD44 exist, including the predominant CD44H isoform detected in many normal tissues. CD44 is a receptor for hyaluronic acid (HA) and is involved in cell-cell interactions, cell adhesion and migration. CD44 also participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing. CD44 expression may be up-regulated upon some carcinomas, and it has been speculated that this may be related to metastatic potential. CD44 is expressed by hematopoietic, non-hematopoietic cells, epithelial tissues, and to filopodia in cultured keratinocytes. Further, bone marrow myeloid cells and memory T cells express CD44 at high levels, and peripheral B and T cells can upregulate the expression of CD44 in response to certain stimulatory events. Transcripts for the CD44 gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full-length nature of some of these variants have not been determined. Alternative splicing is the basis for the structural and functional diversity of the CD44 protein. Diseases associated with CD44 dysfunction include superficial keratitis and lichen sclerosis. CD44 also may be related to tumor metastasis formation.

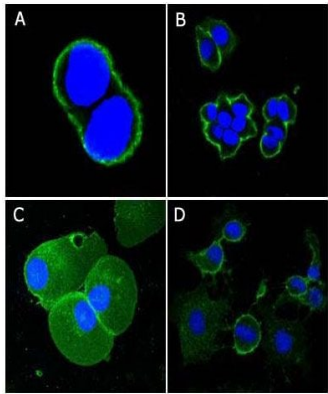
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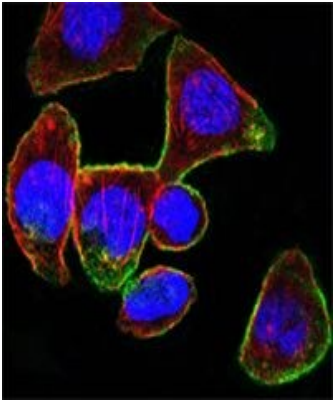
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Product Images For CD44 Monoclonal Antibody (8E2F3)



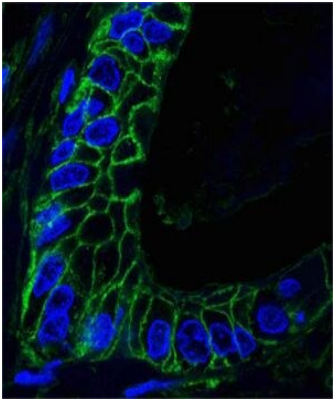
CD44 Antibody (MA5-15462) in ICC/IF

Immunofluorescence analysis of methanol-fixed A431 (A), HeLa (B), PANC-1 (C) and EC (D) cells using CD44/H-CAM monoclonal antibody (Product # MA5-15462) (Green). Blue: DRAQ5 fluorescent DNA dye.



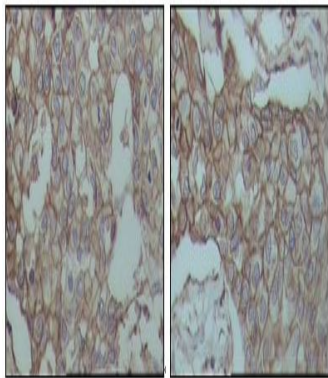
CD44 Antibody (MA5-15462) in ICC/IF

Immunofluorescence analysis of PANC-1 cells using CD44/H-CAM monoclonal antibody (Product # MA5-15462) (Green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with DY-554 phalloidin.



CD44 Antibody (MA5-15462) in IHC (P)

Immunofluorescence analysis of paraffin-embedded human lung cancer tissues using CD44/H-CAM monoclonal antibody (Product # MA5-15462) (Green). Blue: DRAQ5 fluorescent DNA dye.



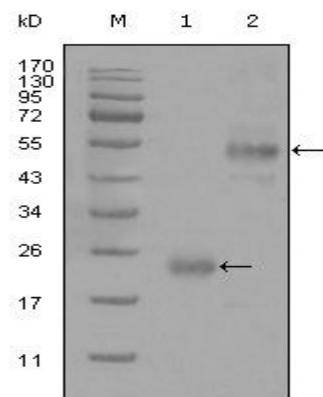
CD44 Antibody (MA5-15462) in IHC (P)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissues using CD44/H-CAM monoclonal antibody (Product # MA5-15462) followed with DAB staining

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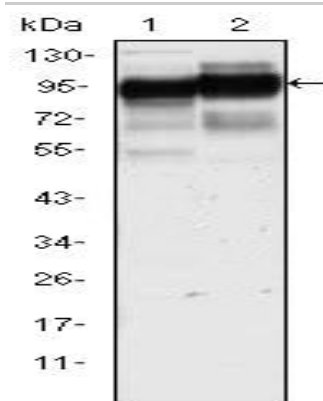
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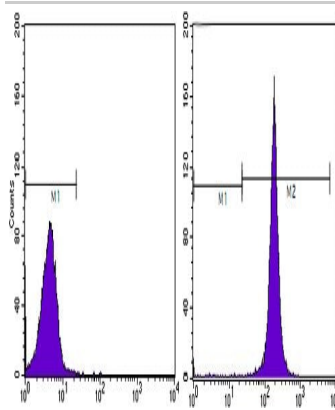
CD44 Antibody (MA5-15462) in WB

Western blot analysis of CD44/H-CAM using a CD44/H-CAM monoclonal antibody (Product # MA5-15462) against a truncated Trx-CD44 recombinant protein (1) and GST-CD44 (aa628-699) recombinant protein (2).



CD44 Antibody (MA5-15462) in WB

Western blot analysis of CD44/H-CAM using CD44/H-CAM monoclonal antibody (Product # MA5-15462) in HeLa (1) and HUVE-12 (2) cell lysate.



CD44 Antibody (MA5-15462) in Flow

Flow cytometric analysis of HeLa cells using CD44/H-CAM monoclonal antibody (Product # MA5-15462) (right) and negative control (left).

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