

CD44 (Extracellular region) M588

Mouse Monoclonal IgG1

Cat. # CM5881

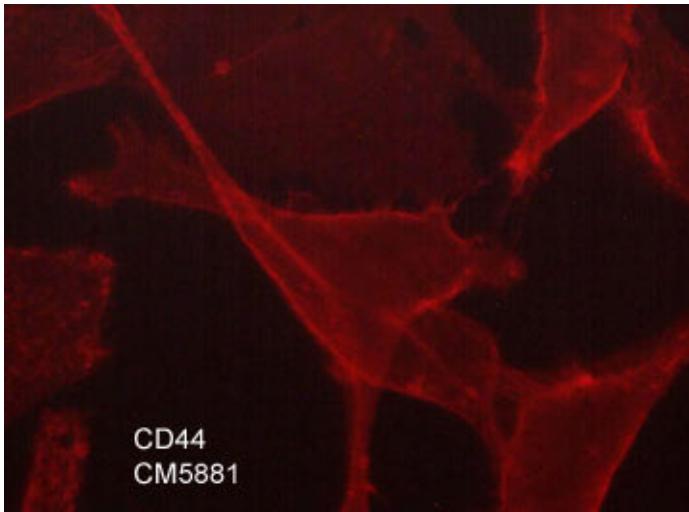
Size 100 µl

Background

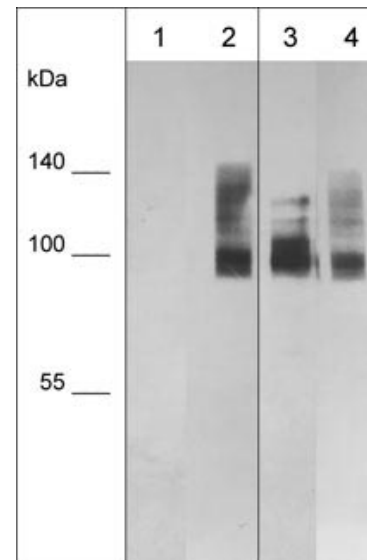
Cell surface adhesion protein CD44 is a ubiquitously expressed type I transmembrane protein that has important functions related to cell-cell adhesion and extracellular matrix interactions. The transmembrane protein is post-translationally modified at multiple sites by glycosylation and phosphorylation. CD44 ligands include hyaluronic acid, collagens, laminins, osteopontin, serglycin, and fibronectin. CD44 has been implicated in inflammatory cell functions, as well as in tumor growth and metastasis. CD44 is overexpressed in many types of cancer; the interaction between CD44 and HER2 has been linked to an increase in ovarian carcinoma cell growth. CD44 interacts with ezrin, radixin, and moesin to link the actin cytoskeleton to the plasma membrane and the extracellular matrix. These interactions are critical for CD44 function in cell-cell adhesion and cell motility.

Background References

Tsukita, S., et al. *J Cell Biol.* 1994. 126(2):391
Goodinson, S., et al. *J Clin Path: Mol Path* 1999. 52(4):189
Cichy, J., et al. *J Cell Biol.* 2003. 161(5):839



Immunocytochemical labeling of CD44 in paraformaldehyde fixed human MDA-MB-231 cells. The cells were labeled with mouse monoclonal anti-CD44 (M588). The antibody was detected using goat anti-mouse DyLight® 594.



Western blot analysis of denatured (1 & 3) and native (lanes 2 & 4) human MDA-MB-231 whole cell lysates. The blots were probed with mouse monoclonal anti-CD44 (CM5881) at 1:1000 (lanes 1 & 2) or mouse monoclonal anti-CD44 (CM5911) at 1:1000 (lanes 3 & 4).

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Rev 3/6/2017

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Cat. # CM5881

Size 100 μ l

Immunogen

Clone M588 was generated from a proprietary antigen related to the extracellular region of human CD44.

Buffer and Storage

Mouse monoclonal antibody purified with protein G chromatography is supplied in 100 μ l phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C . Stable for 1 year.

Applications

WB	1:1000
ELISA	1:2000
ICC	1:100
IP	1:100

Species Reactivity

Hu

End user should determine optimal dilution for their particular applications and experiments. Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

Specificity

Clone M588 was purified using Protein G chromatography. The antibody detects 80-130 kDa* bands corresponding to the molecular mass of CD44 on SDS-PAGE immunoblots of "native" MDA-MB-231 cell lysates. The antibody also detects "native" recombinant human CD44 extracellular region. The antibody does not bind CD44 in denatured MDA-MB-231 cell lysates or after β -mercaptoethanol treatment of recombinant CD44 protein.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Related Products

- CM5911 CD44 (Extracellular region) M591 Mouse Monoclonal
- OM5741 Osteopontin (N-terminal region) M574 Mouse Monoclonal
- IK6270 Integrin β 4 Phospho-Regulation Antibody Sampler Kit
- IM5811 Integrin β 3 (Extracellular region) Mouse Monoclonal
- IM5841 Integrin α V (Extracellular region) Mouse Monoclonal

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