



Qty: 100 µg/200 µl
Mouse anti-CD44v6
Catalog No. 33-6700
Lot No.

Mouse anti-CD44v6

FORM

This monoclonal antibody is highly purified from mouse ascites by Fc-region affinity chromatography. The antibody is supplied as a 0.2 ml aliquot at a concentration of 0.5 mg/mL in PBS containing 0.1% NaN₃.

CLONE: MA54

ISOTYPE: IgG₁

SPECIFICITY

MA54 specifically recognizes an epitope encoded by exon v6 on the variant portion of human CD44.

REACTIVITY: Human

USAGE

MA54 can be used to stain both indirectly or directly acetone-fixed cryostat sections or cell smears. MA54 is also suitable for paraffin embedded tissue after heat-induced epitope retrieval. MA54 can also be used for Western blot analysis. The dilutions listed below are good starting points; however, optimal dilution of the antibody should be determined by the investigator for each application.

Western Blot: 3-5 µg/ml
IHC (paraffin) 5 µg/ml

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long term storage. Avoid repeated freezing and thawing.

BACKGROUND⁽¹⁻³⁾

CD44 (H-CAM, Homing Cell Adhesion Molecule, Pgp-1) is a transmembrane protein with a nominal MW of 85-90 kD (this may be increased substantially by glycosylation). CD44 has been detected in a variety of cell types including T and B cells, macrophages, monocytes, granulocytes, erythrocytes, fibroblasts, epithelial cells, smooth muscle cells, and a subset of glial cells in the central nervous system. Larger isoforms (up to 230 kD) arise through alternative splicing of several variant exons resulting in insertions of various sizes into the extracellular region of the 90 kD constant form. For some cancers, differential or over-expression of CD44 variants correlates with tumor development and metastatic potential; in a rat pancreatic adenocarcinoma cell line expressing CD44(v6), for example. It has also been suggested that CD44v6 expression may be a useful target to monitor the progression of certain human metastasis such as breast cancers. In contrast, recent studies with epithelial cells also document the down-regulation of CD44v6 expression during malignant transformation.

REFERENCES

1. Hale, L.P., et. al.: Expression of CD44 Variants in Human Inflammatory Synovitis, *J. Clin. Immunopathology*, 15:300, 1995.
2. Mackay, C. R., et. al.: Expression and Modulation of CD44 Variant Isoforms in Humans, *J. Cell. Biol.*, 124:71, 1994.
3. Soukka, T.: Regulation of CD44v6-containing Isoforms during Proliferation of Normal and Malignant Epithelial Cells, *Cancer Res.*, 57:2281, 1997.

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RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Ms x CD44v6	V6-B3	33-0400
Rt x CD44	1m7.8.1	13-5500
Ms x CD44	DF1485	07-4403
Protein A-Sepharose® 4B		10-1041
rec-Protein G-Sepharose® 4B		10-1241

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
Unconjugated	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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