

## Monoclonal Antibody to CD44 - FITC

<b>Alternate names:</b>	CDw44, ECMR-III, Epican, Extracellular matrix receptor III, GP90 lymphocyte homing/adhesion receptor, HUTCH-I, Heparan sulfate proteoglycan, Hermes antigen, Hyaluronate receptor, LHR, MDU2, MDU3, MIC4, PGP-1, Phagocytic glycoprotein 1
<b>Catalog No.:</b>	SM1898F
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	CD44 is a 100 kD glycoprotein widely expressed on human leucocytes, and on the white matter of brain and by some epithelial cells of the intestine and of the breast. CD44 expression may be upregulated upon some carcinomas, and it has been speculated that this may be related to metastatic potential.
<b>Uniprot ID:</b>	<a href="#">P16070</a>
<b>NCBI:</b>	<a href="#">NP_000601.3</a>
<b>GeneID:</b>	<a href="#">960</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	F10-44-2
<b>Immunogen:</b>	Human T lymphocytes.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Affinity Chromatography on Protein G. <b>Buffer System:</b> PBS, pH 7.4, containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	Flow cytometry (Neat-1/10): Use 10 µl of the suggested working dilution to label 10e6 cells in 100 µl. This product is routinely tested in flow cytometry on human peripheral blood lymphocytes. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the CD44 cell surface antigen. <b>Species:</b> Human, Cynomolgus Monkey. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General References:</b>	1. Dalchau, R. et al. (1980) Monoclonal antibody to a human brain granulocyte T lymphocyte antigen probably homologous to the W3/13 antigen of the rat. Eur. J. Immunol.

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10: 745-750.

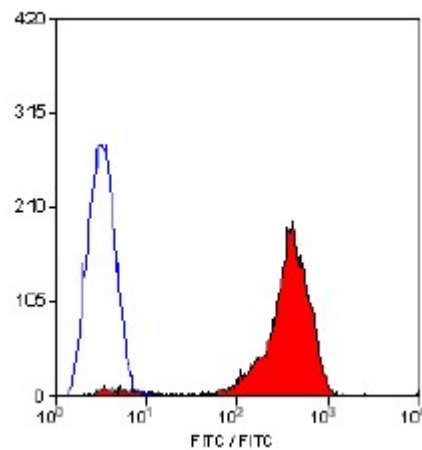
2. Daar, A.S. and Fabre, J.W. (1981) Demonstration of an unusual mononuclear cell infiltrate and loss of normal epithelial membrane antigens in human breast carcinoma. *Lancet*. 2: 434-438.

3. Cattoretti, G. et al. (1993) Antigen unmasking on formalin-fixed, paraffin-embedded tissue sections. *J. Pathol.* 171:83-98.

4. Yoshino, N. et al. (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of Cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. *Exp. Anim.* 49 (2): 97-110.

5. Roscic - Mrkic, B. et al. (2003) RANTES (CCL5) uses the proteoglycan CD44 as an auxiliary receptor to mediate cellular activation signals and HIV - 1 enhancement. *Blood*. 102: 1169 - 1177.

**Pictures:**



Staining of human peripheral blood lymphocytes with SM1898F

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