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	Monoclonal Antibody to CD44 / HUTCH-I - FITC -
Alternate names:	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
Catalog No.:	SM3153F
Quantity:	100 Tests
Background:	CD44 is a transmembrane glycoprotein expressed on the surface of most cells, which serves as a receptor for hyaluronan. CD44 mediates angiogenesis, cell adhesion, proliferation and migration, it is thus important for lymphocyte activation, recirculation ar homing, it can thus serve e.g. as a modulator of macrophage recruitment in response to pathogen. Although CD44 functions are essential for physiological activities of normal cells, elevated CD44 expression correlates with poor prognosis in many carcinomas, facilitating tumour growth and metastasis, antiapoptosis and directional motility of cance cells.
Uniprot ID:	<u>P16070</u>
NCBI:	<u>NP_000601.3</u>
GenelD:	<u>960</u>
Host / Isotype:	Mouse / IgG2b
Clone:	MEM-85
Immunogen:	Leukocytes of a patient suffering from LGL Type Leukaemia
Format:	<ul> <li>State: Liquid purified Ig fraction</li> <li>Buffer System: Phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent</li> <li>Label: FITC – Conjugated with Fluorescein isothiocyanate under optimum conditions.</li> <li>Reagent is free of unconjugated</li> </ul>
Applications:	Flow Cytometry analysis of human blood cells using 20 $\mu$ l reagent / 100 $\mu$ l of whole blood or 10e6 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody MEM-85 reacts with both cell surface-expressed and soluble form of CD44 antigen (Phagocyte glycoprotein 1), a 80-95 kDa transmembrane glycoprotein (hyaladherin family) present on the most of cells and tissues (leukocytes, endothelial cells, mesenchymal cells, etc.); it is negative on platelets and hepatocytes. <b>Species:</b> Human. Other species not tested.
Add. Information:	HLDA IV; WS Code NL 706 HLDA VI; WS Code AS Ref.15

Antibody Hotline - Technical Questions - Antibody Location Service Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

<u>cris</u>	SM3153F: Monoclonal Antibody to CD44 / HUTCH-I - FITC -
Storage:	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
General References:	<ol> <li>Vigetti D, Viola M, Karousou E, Rizzi M, Moretto P, Genasetti A, Clerici M, Hascall VC, De Luca G, Passi A: Hyaluronan-CD44-ERK1/2 regulate human aortic smooth muscle cell motility during aging. J Biol Chem. 2007 Dec 12</li> <li>Hollingsworth JW, Li Z, Brass DM, Garantziotis S, Timberlake SH, Kim A, Hossain I, Savani RC, Schwartz DA. CD44 regulates macrophage recruitment to the lung in lipopolysaccharide-induced airway disease. Am J Respir Cell Mol Biol. 2007 Aug;37(2):248-53.</li> <li>Liu J, Bi G, Wen P, Yang W, Ren X, Tang T, Xie C, Dong W, Jiang G. Down-regulation of CD44 contributes to the differentiation of HL-60 cells induced by ATRA or HMBA. Cell Mol Immunol. 2007 Feb;4(1):59-63.</li> <li>Subramaniam V, Gardner H, Jothy S: Soluble CD44 secretion contributes to the acquisition of aggressive tumor phenotype in human colon cancer cells. Exp Mol Pathol. 2007 Dec;83(3):341-6.</li> <li>Subramaniam V, Vincent IR, Gardner H, Chan E, Dhamko H, Jothy S: CD44 regulates cell migration in human colon cancer cells via Lyn kinase and AKT phosphorylation. Exp Mol Pathol. 2007 Oct;83(2):207-15.</li> <li>Stefanová I, Hilgert I, Bazil V, Kristofová H, Horejsí V.: Human leucocyte surface glycoprotein CDw44 and lymphocyte homing receptor are identical molecules. Immunogenetics. 1989;29(6):402-4.</li> <li>Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989).</li> <li>Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).</li> <li>Bazil V, Strominger JI: Metalloprotease and serine protease are involved in cleavage of CD43, CD44, and CD16 from stimulated human granulocytes. Induction of cleavage of L-selectin via CD16. J Immunol. 1994 Feb 1;152(3):1314-22.</li> <li>Ilangumaran S, Briol A, Hoessli DC: CD44 selectively associates with active Src family protein tyrosine kinases Lck and Fyn in glycosphingolipid-rich plasma membrane domains of human peripheral blood lymphocytes. Blood. 1998 May 15;91(10):3901-8.</li> <li>Kolar GR,</li></ol>