

Title (en)  
A SUBPOPULATION OF MAC-1 (CD11B/CD18) MOLECULES WHICH MEDIATE NEUTROPHIL ADHESION TO ICAM-1 AND FIBRINOGEN.

Title (de)  
EINE SUBPOPULATION VON MAC-1 (CD11B/CD 18) MOLEKÜLEN WELCHE EINE NEUTROPHILE ADHÄSION AN ICAM-1 UND FIBRINOGEN VERMITTELN.

Title (fr)  
SOUS-POPULATION DE MOLECULES Mac-1 (CD11B/CD 18) QUI INDUISENT L'ADHESION NEUTROPHILE A ICAM-1 ET AU FIBRINOGENE.

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Application  
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Abstract (en)  
[origin: WO9408620A1] The present invention is based on the novel observation that upon stimulation of resting myeloid cells, not all of the Mac-1 molecules expressed by the cell become activate. Only select subpopulations of Mac-1 molecules are activated and become capable of binding ligand. Further, the activated Mac-1 molecules were found to possess activation specific epitopes which distinguishes them from non-activated Mac-1 molecules. Based on these observations antibodies are described which selectively bind activated Mac-1 molecules but are substantially incapable of binding non-activated Mac-1.

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Citation (search report)

- [Y] EP 0364690 A2 19900425 - DANA FARBER CANCER INST INC [US]
- [Y] WO 8809672 A1 19881215 - UNIV MICHIGAN [US], et al
- [Y] WO 8900190 A1 19890112 - DANA FARBER CANCER INST INC [US]
- [AD] EP 0488061 A2 19920603 - BLOOD RES LAB CENTER [US]
- [XY] ELEMER G ET AL: "Monoclonal antibody 7A10 defines a functional neopeptide of the leukocyte integrin CD11B-CD18 MAC - 1", 1992 MEETING OF THE FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY (FASEB), PART II, ANAHEIM, CALIFORNIA, USA, APRIL 5-9, 1992. FASE (FED AM SOC EXP BIOL) J. (1992) 6 (5), A1893. CODEN: FAJOEC. ISSN: 0892-6638., XP002094274
- [XY] SPRINGER T ET AL: "Mac - 1: a macrophage differentiation antigen identified by monoclonal antibody.", EUROPEAN JOURNAL OF IMMUNOLOGY, (1979 APR) 9 (4) 301-6. JOURNAL CODE: EN5. ISSN: 0014-2980., GERMANY, WEST: Germany, Federal Republic of, XP002094275
- [XY] BROWN E J ET AL: "Mechanism of inhibition of immunoglobulin G-mediated phagocytosis by monoclonal antibodies that recognize the Mac - 1 antigen.", JOURNAL OF CLINICAL INVESTIGATION, (1988 FEB) 81 (2) 365-75. JOURNAL CODE: HS7. ISSN: 0021-9738., United States, XP002094276
- [XY] DANA N ET AL: "Two functional domains in the phagocyte membrane glycoprotein MO1 identified with monoclonal antibodies", JOURNAL OF IMMUNOLOGY, vol. 137, no. 10, 15 November 1986 (1986-11-15), pages 3259 - 3263, XP000655020
- [Y] COLLET B ET AL: "Scintigraphic detection in mice of inflammatory lesions and tumours by an indium-labelled monoclonal antibody directed against Mac - 1 antigen.", CANCER IMMUNOLOGY, IMMUNOTHERAPY, (1988) 26 (3) 237-42. JOURNAL CODE: CN3. ISSN: 0340-7004., GERMANY, WEST: Germany, Federal Republic of, XP002094277
- [Y] DING A ET AL: "Activation of mouse peritoneal macrophages by monoclonal antibodies to Mac - 1 (complement receptor type 3).", JOURNAL OF EXPERIMENTAL MEDICINE, (1987 MAR 1) 165 (3) 733-49. JOURNAL CODE: I2V. ISSN: 0022-1007., United States, XP002094278
- [Y] SCHEINBERG D A: "Current applications of monoclonal antibodies for the therapy of hematopoietic cancers.", CURRENT OPINION IN IMMUNOLOGY, (1991 OCT) 3 (5) 679-84. REF: 47 JOURNAL CODE: AH1. ISSN: 0952-7915., ENGLAND: United Kingdom, XP002094279
- [DA] KISHIMOTO ET AL.: "The leukocyte integrins", ADVANCES IN IMMUNOLOGY, vol. 46, 1989, pages 149 - 182, XP000655002
- [PX] DIAMOND M S ET AL: "A Subpopulation of MAC-1 (CD11B/CD18) Molecules mediates neutrophil adhesion to ICAM-1 and fibrinogen", JOURNAL OF CELL BIOLOGY, vol. 120, no. 2, January 1993 (1993-01-01), pages 545 - 556, XP000655147
- [T] LUK, JOHN ET AL: "Subunit specificity and epitope mapping of Mac-1 and p150,95 mAb using chimeric CD11b X CD11c transfectants", LEUCOCYTE TYPING V: WHITE CELL DIFFER. ANTIGENS, PROC. INT. WORKSHOP CONF., 5TH (1995), MEETING DATE 1993, VOLUME 2, 1599-1601. EDITOR(S): SCHLOSSMAN, STUART F. PUBLISHER: OXFORD UNIVERSITY PRESS, OXFORD, UK. CODEN: 63WDAC, XP002094280
- [T] DIAMOND M S ET AL: "The I domain is a major recognition site on the leukocyte integrin Mac-1 (CD11b /CD18) for four distinct adhesion ligands.", JOURNAL OF CELL BIOLOGY, (1993 FEB) 120 (4) 1031-43. JOURNAL CODE: HMV. ISSN: 0021-9525., United States, XP002094281
- See references of WO 9408620A1

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