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[54] **MONOCLONAL ANTIBODY FOR RECOVERY OF LEUKOCYTES IN HUMAN PERIPHERAL BLOOD AND METHOD OF RECOVERY EMPLOYING SAID MONOCLONAL ANTIBODY**

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[58] **Field of Search** 435/2, 7, 29, 4, 68, 435/70, 172.2, 240, 241; 436/548, 518, 526, 528, 534; 935/103, 104, 108, 110; 530/387

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[57] **ABSTRACT**

A murine monoclonal antibody which selectively binds to the determinant site or specific epitope of glycophorin A exposed on the membrane of the erythrocyte and does not bind to other glycophorins. The monoclonal antibody is coated on a microsphere or substrate of a suitable monodispersed variety and utilized in a separation procedure for recovery of white blood cell subsets without lysing of erythrocytes. The bound microspheres are recovered without adverse depletion of the white blood cell population of the sample. The microsphere or bead-to-cell ratio employed is most acceptable for commercial applications of the invention. The invention thus enables accurate assaying of white blood cell subsets in circulating peripheral blood without resorting to lysing of erythrocytes.

8 Claims, No Drawings