

ABSTRACT

[Problem] A multi-parameter automatic blood cell counting device that can immediately acquire information of immunodynamics and accurately comprehend immune status is provided.

[Solution] The multi-parameter automatic blood cell counting device includes a basic information generator; an immune cell subgroup detector; an immunodynamic change analyzer; a storage; and a display, wherein the basic information generator is configured to acquire examination information of a blood count of blood components and a white blood cell image, and analysis information of a CD classification of monoclonal antibodies that bind to lymphocyte surface antigens, the immune cell subgroup detector is configured to detect information of immune cell subgroups required for analyzing an immune status of a subject based on the examination information of the blood count of the blood components and the white blood cell image, and the analysis information of the CD classification of the monoclonal antibodies that bind to lymphocyte surface antigens, and the immunodynamic change analyzer is configured to identify information related to a change in immunodynamics of the subject based on the information examined in the basic information generator and the immune cell subgroup detector, and data stored in the storage, and to create and display an image of the identified information on the display.

FIG. 2