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Antibody-dependent cell-mediated cytotoxicity can be measured with 1000 mononuclear cells by a flow cytometry technique. Effector target chick red blood cells (CRBC) and antiserum against CRBC were incubated for 30 minutes, then prepared for fluorescence micrography with acridine orange. The small round nucleus is that of a CRBC; the larger convoluted nucleus partially surrounding it is of the effector (about × 7000). See page 404. [A. M. Attallah, Bureau of Biologics, Food and Drug Administration, Bethesda, Maryland]