

When human monocyte-derived leukemia (THP-1) cells, which are floating cells, are stimulated with lipid peroxides, or *Streptococcus suis*, these cells adhere to a plastic plate or endothelial cells. However, it is unclear whether or not non-stimulated THP-1 cells adhere to collagen vitrigel membrane (CVM). In this study, firstly, we investigated the rate of adhesion of THP-1 cells to CVM. When THP-1 cells were not stimulated, the rate of adhesion to CVM was high. Then, to identify adhesion molecules involved in adhesion of THP-1 cells to CVM, expressions of various cell adhesion molecules on the surface of THP-1 cells adhering to CVM were measured. β -actin, β -catenin, and β 1-integrin expressions did not change in non-stimulated THP-1 cells cultured on CVM compared with those in cells cultured in a flask, but β 2-integrin expression markedly increased.

THP-1 cells were seeded in T-75, or CVM, or CVM added PMA 10 ng/mL; and β -actin(A), β -catenin(B), β 1-integrin(C) and β 2-integrin(D) expression were measured ($N = 3$).

