**Supporting information for**

# Induction of inter-membrane adhesion by incorporation of synthetic adhesive molecules into cell membranes

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Figure S1

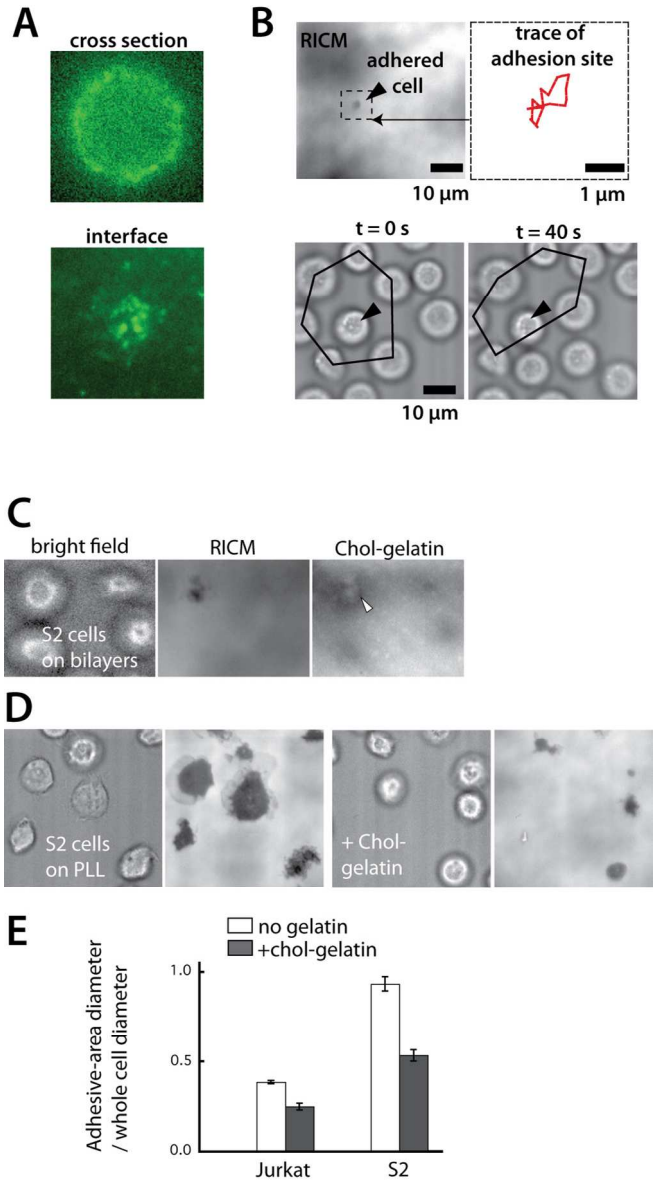


**Figure S1**.

*A*. Higher resolution image of chol-gelatin at the cell-SLB interface by TIRF microscopy (right)

and epi-fluorescence image of chol-gelatin at the cross section of a cell (~5 μm above the interface). *B*. Dynamics of the adhesion site shown by RICM (top left) were recorded every 2 s and the trace was plotted (top right). Bright field time-lapse images demonstrated the dynamics of adhered and non-adhered cells (bottom). Arrows indicate adhered cells in all images and lines in the bottom images connect nonadherent cells in diffusive motion. *C*. S2 cell adhesion to supported bilayers mediated by chol-gelatin. The arrow indicates the gelatin spot on the binding. *D*. S2 cells without or with $(chol)_{8.75}$-gelatin were incubated on PLL-coated glass bottom dishes and then imaged by bright field and RICM. *E*. Adhesion area diameter (ratio to the whole cell diameter) on PLL-coated glass at 5 min of incubation was quantified for both Jurkat and S2 cells.

**Movie S1.**

Dynamics of adhered and nonadherent cells on supported bilayers in Figure S1B. Bright field images (left) and RICM images (right).