Supplemental Materials

Molecular Biology of the Cell

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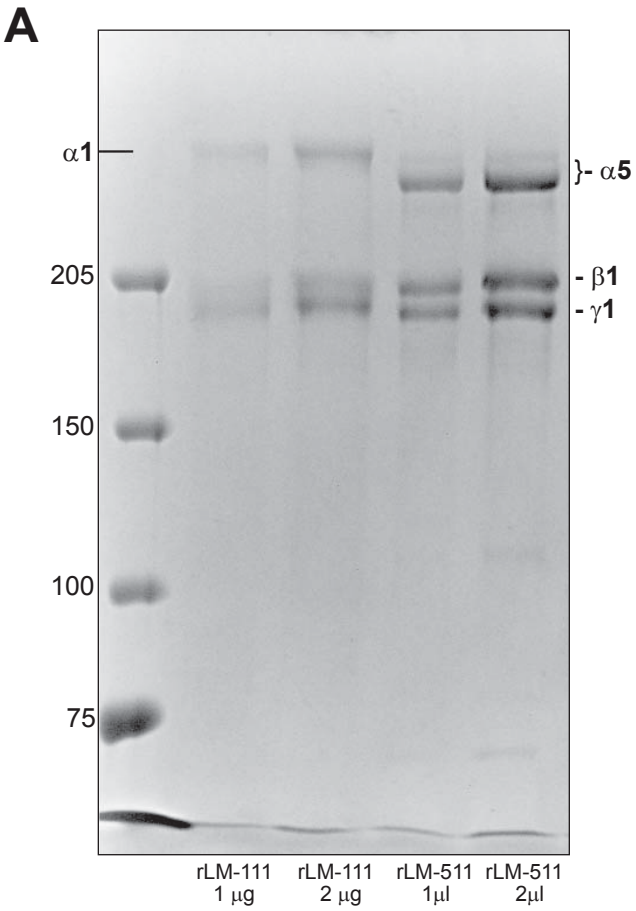
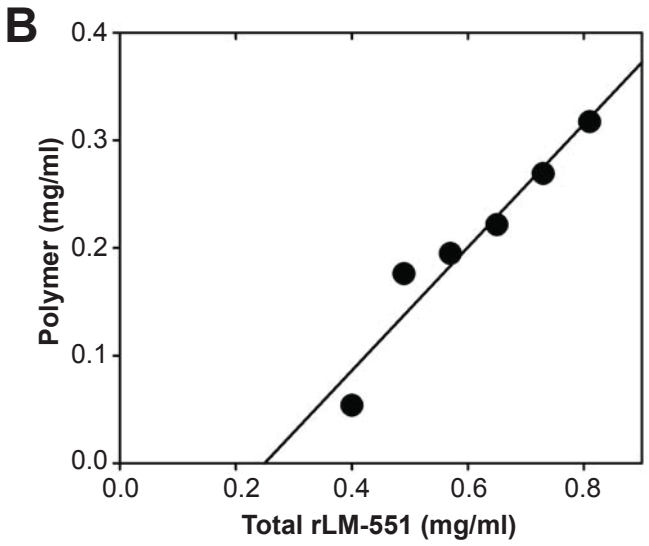
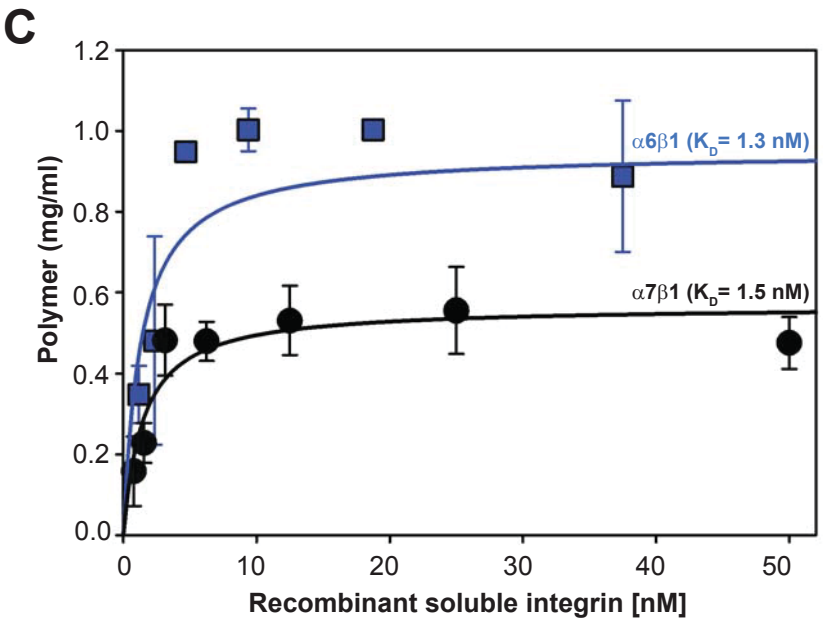
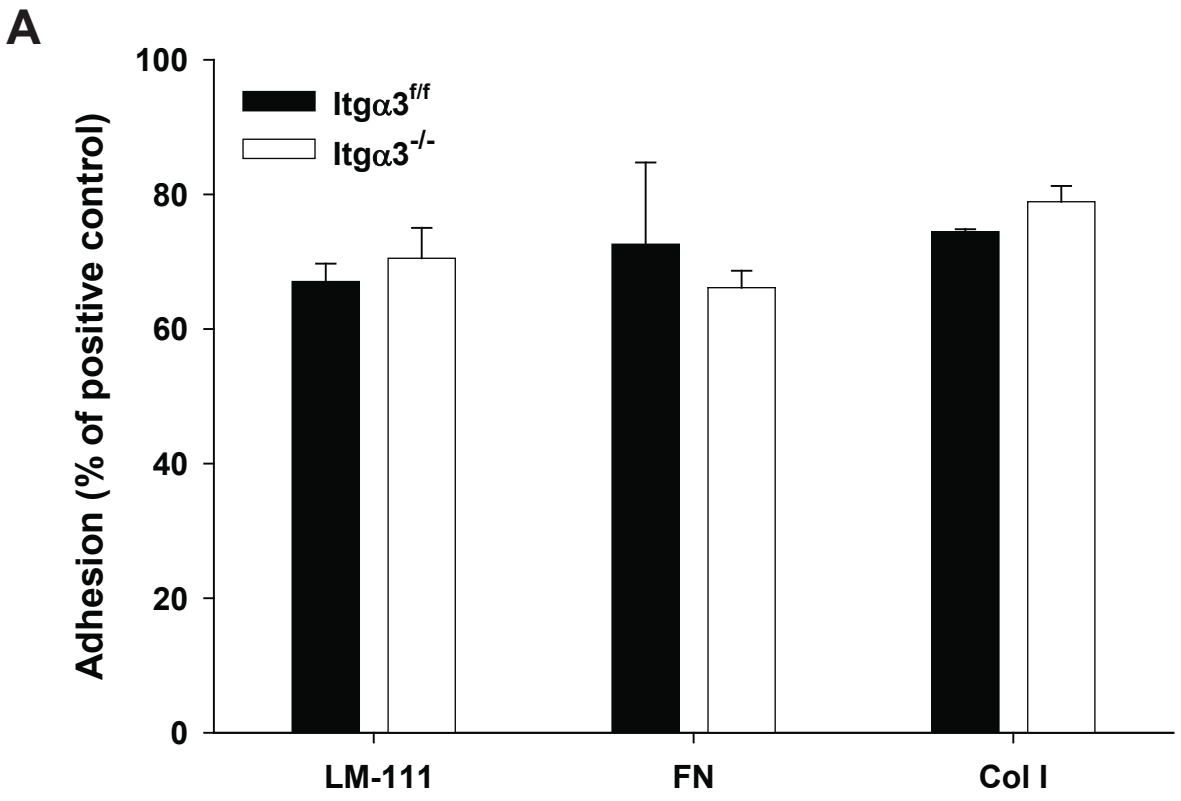
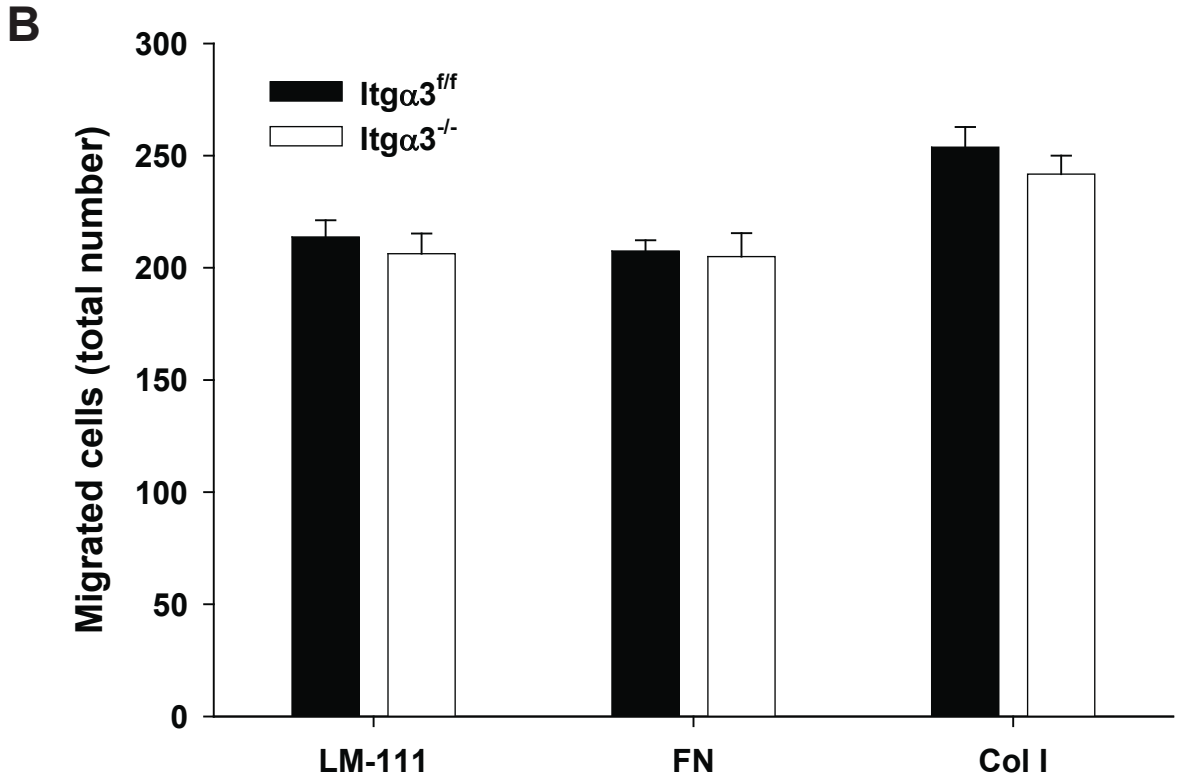






Supplementary Fig. 1





Supplementary Fig. 2

Supplementary Figure 1. Characterization of produced LM-511. (A) The homogeneity of purified LM-511 was confirmed by Coomassie blue staining of SDS-PAGE (7.5%, reduced). (**B**) The correct folding of LM-511was confirmed by a polymerization assay. Recombinant LM511 was incubated in the presence of 1 mm calcium at 37 °C followed by centrifugation. Shown is a plot of the concentration of polymer as a function of total laminin concentration. (**C**) LM-511activity was assessed by binding with recombinant integrins α7β1 (circles) and α6β1 (squares). The LM-511 was coated onto high binding dishes (Costar) at 10 nM in 40 mM sodium bicarbonate buffer, pH 9.6. The plate was blocked with TTBS (50mM Tris pH 7.4, 90mM NaCl, 0.02% tween 20, + 1% BSA and 1mM MnCl2), then soluble integrin was bound in the same buffer for 2 hours at room temperature. The bound integrin was detected with biotinylated rabbit anti-Velcro antibody (ACID/BASE coiled coil, 1:1000 dilution), followed by HRP-conjugated streptavidin (1 mg/ml) and then developed with TMB (Thermo Scientific).

Supplementary Figure 2. **Integrin α3β1 is not essential for CD cell adhesion and migration on LM-111, fibronectin (FN) and collagen I (Col I).** Adhesion **(A)** and migration **(B)** on LM-111, FN and Col I were evaluated as described in Methods. Mean measurements ±SEM of 4-6 independent experiments are shown.