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SUPPORTING INFORMATION

Collective Cell Migration on Artificial Extracellular Matrix Proteins Containing Full-Length Fibronectin Domains

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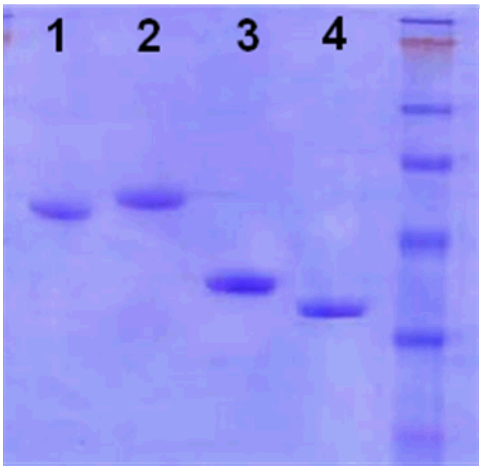


	aECM protein (s)			
	FN910	**FN910m**	**FN10m**	**RGDm**
Theoretical molecular weight (kDa)	49.37	49.2	39.25	30.96

Figure S1 Coomassie-stained SDS-PAGE gel of purified aECM proteins. 10 µl of each denatured protein solution (1 mg/ml in PBS pH 7.4) was loaded for each lane and run with SeeBlue Plus2 molecular weight ladder. The theoretical molecular weight of each aECM protein is shown.

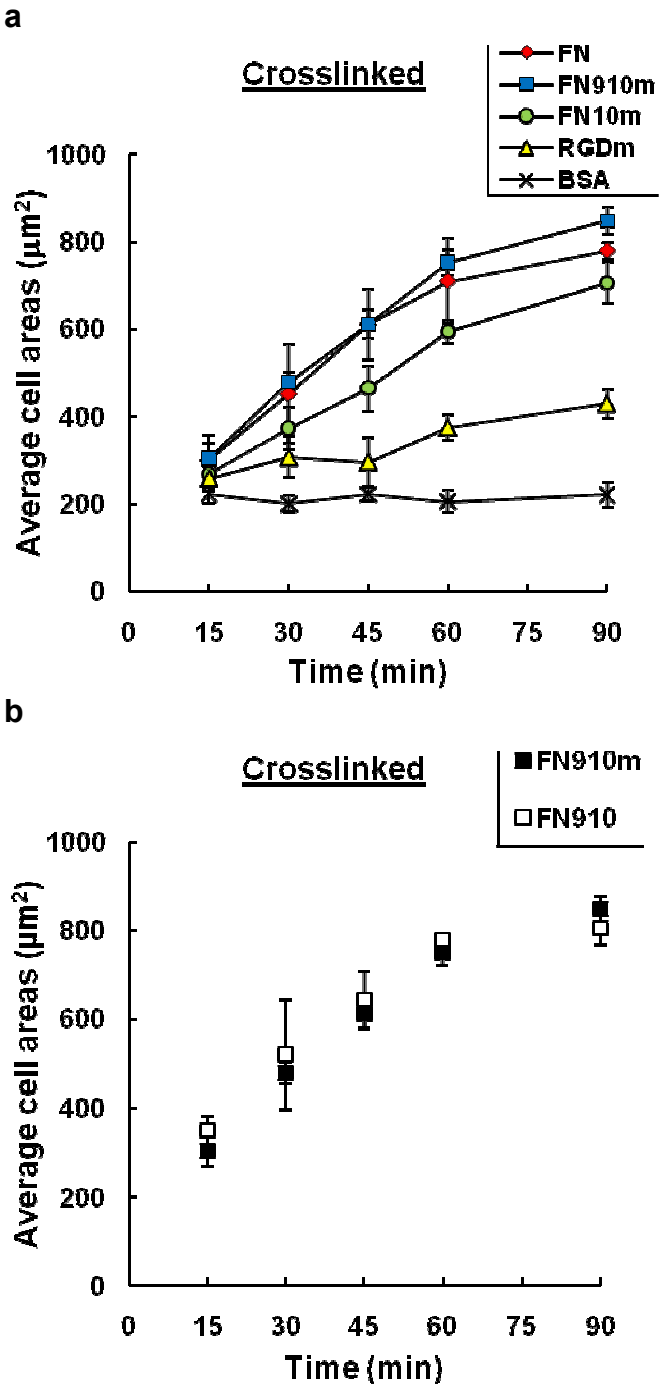
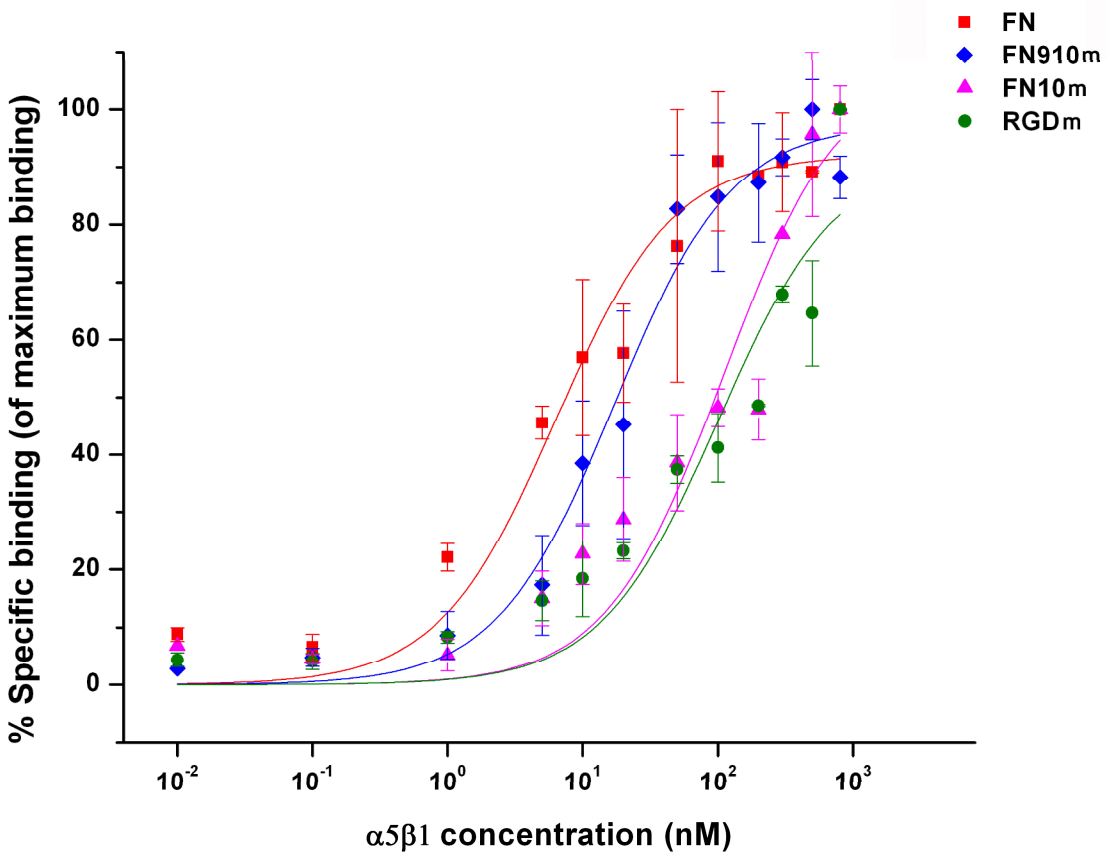


Figure S2 Time course of cell spreading for crosslinked aECM protein surfaces. Spin-coated aECM protein films were prepared as described previously [1]. a) Cell spreading on spin-coated

crosslinked FN910m, FN10m, and RGDm compared to adsorbed FN and BSA control surfaces. b) Rat-1 cell spreading on spin-coated crosslinked FN910 and FN910m.



	FN	FN910m	FN10m	RGDm
Apparent K_D	6.3 nM	17.2 nM	109 nM	100 nM

Figure S3 Binding of $\alpha_5\beta_1$ integrin to fibronectin and aECM proteins by ELISA. Individual dose-response curves for various surfaces were corrected for non-specific binding in the BSA wells. Results are normalized and expressed as percentages of maximum binding activity. The apparent K_D's were derived by fitting the data to a sigmoidal curve for each surface.

References

[1] J. C. Liu, D. A. Tirrell, *Biomacromolecules* **2008**, *9*, 2984-88