Supplementary Information for:

Biphasic response of T cell activation to substrate stiffness Dennis J Yuan, Lingting Shi, Lance C Kam Corresponding author: Lance C Kam Contact: <u>lk2141@columbia.edu</u>

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Table S1 Figs. S1, S2

Supplementary Figures

Measured E (kPa)	Acrylamide (%w/v)	Bis-acrylamide (%w/v)	Strep-Acryl concentration (%w/v)
5	4	0.03	0.0167
17	8.666	0.0433	0.0167
25	6.667	0.0667	0.0333
75	6.667	0.2667	0.0333
110	6.667	0.5333	0.0167

 Table S1. Composition of PA-gels and measured Young's modulus values.

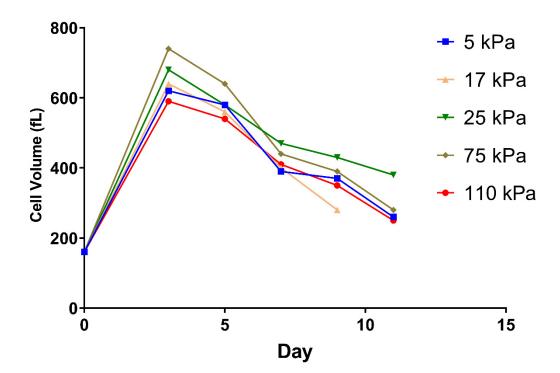


Figure S1. Cell sizing during long term proliferation of activated T cells on coated hydrogels. The data in this panel are from a representative experiment, comparing sizing of cells undergoing expansion from a single donor as a function of substrate stiffness.

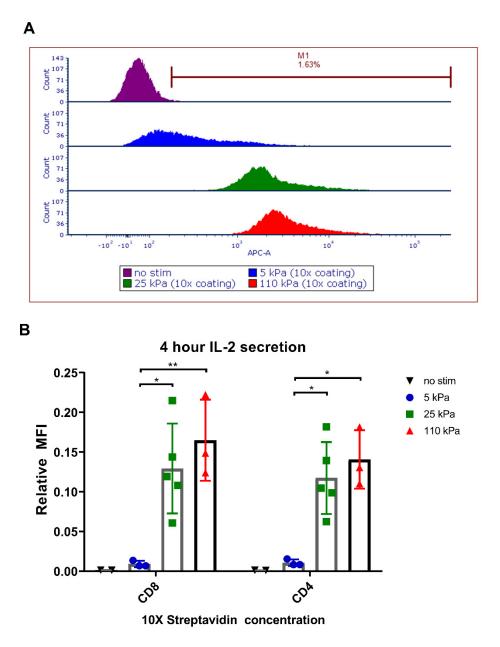


Figure S2. Representative intensity plots of IL-2 secretion of T cells activated on hydrogels of various rigidities, with A) 10X coating. B) 4 hour IL-2 secretion of CD4 and CD8 T cells activated on 10X coated substrates. Data are mean ± s.d., *p<0.05, **p<0.01, 2-way ANOVA, Tukey multiple comparison test.