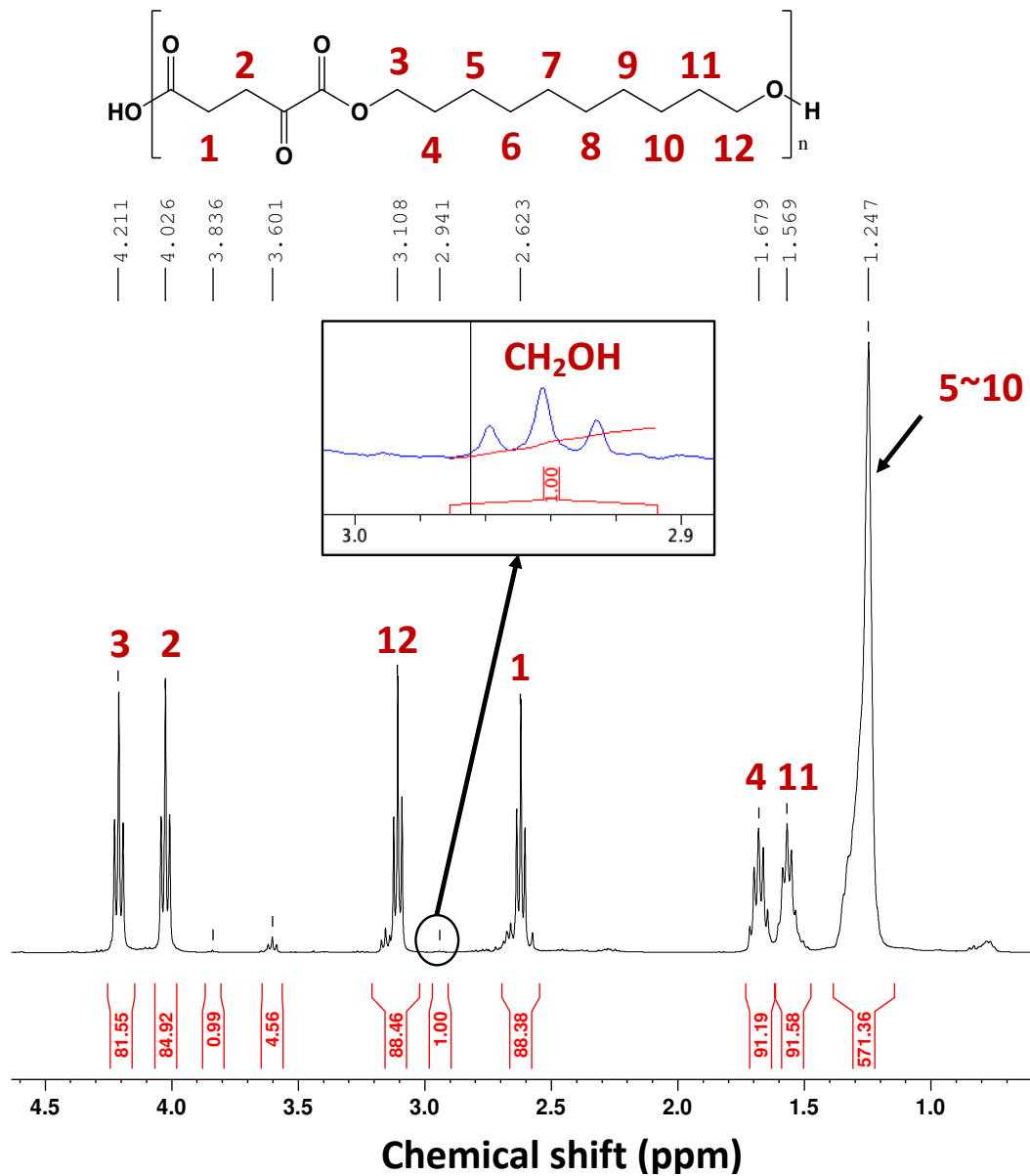


1 **Supporting Information**

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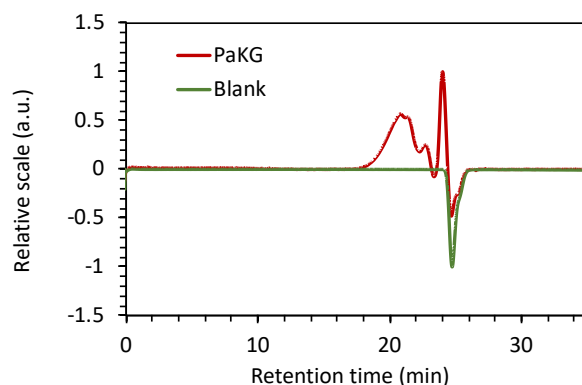


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6 **Figure S1: ¹H NMR spectrum of paKG polymer.** The ¹H NMR spectra demonstrates that
7 the polymer was generated with aKG and 1, 10-decanediol as monomers.

8

Molecular weight measurement via GPC



*	M _n (kDa)	M _w (kDa)	PDI	dn/dc (mL/g)
Method I	15.3	20.5	1.33	N/A
Method II	16.3	19.2	1.18	0.114
Method III	23.9	N/A	N/A	N/A

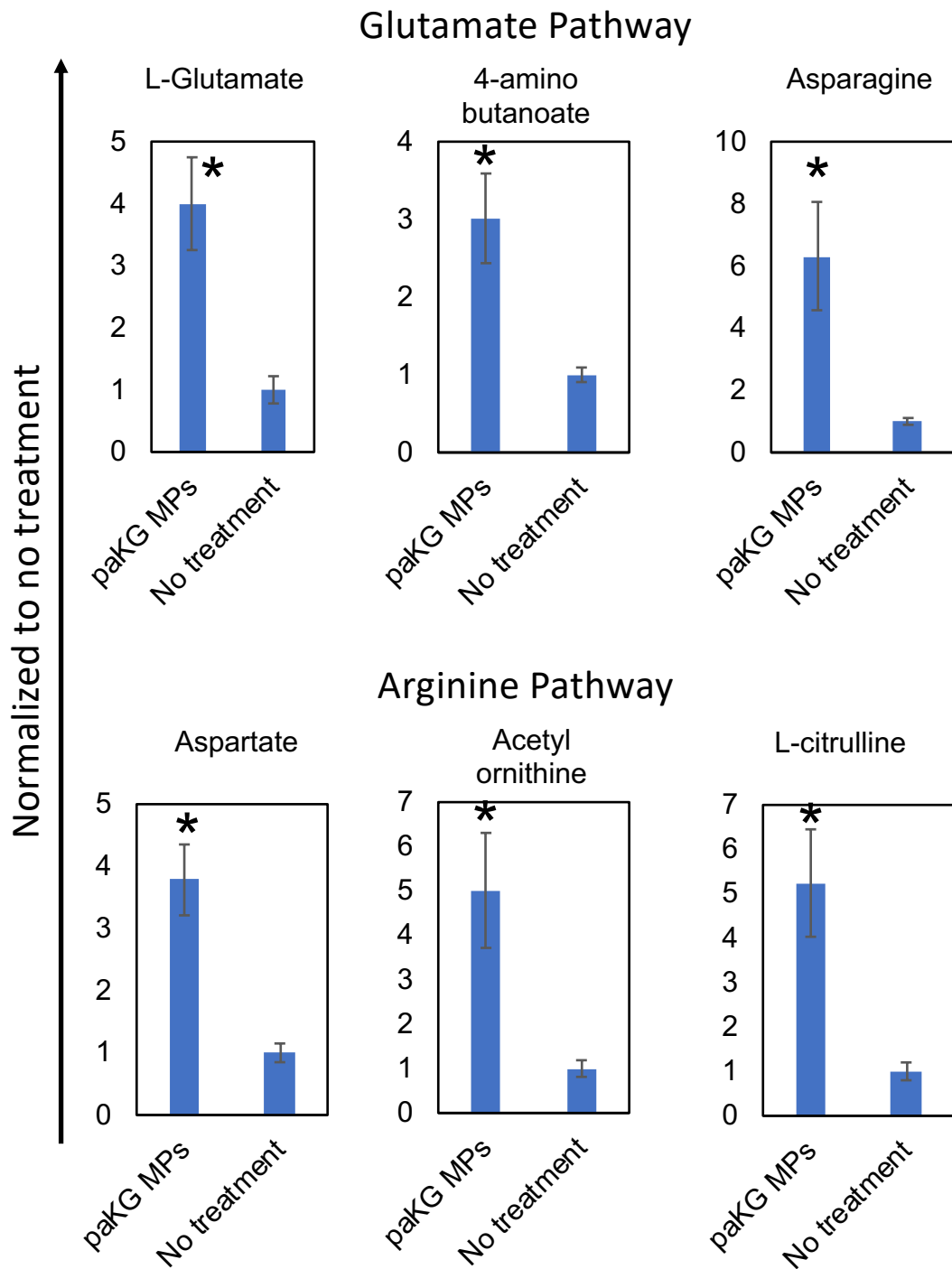
*Method I: M_n and M_w are calibrated by polystyrene standards (500 kDa, 200 kDa, 100 kDa, 30 kDa, 10 kDa, and 5 kDa)

Method II: M_w is calculated by the measurement of dn/dc value of PaKG sample

Method III: M_n based on calculation of degree of polymerization from ¹H NMR

1
2 **Figure S2: Molecular weight determination of the paKG polymer. Method I - M_n and**
3 **M_w are calculated using a calibration curve generated from polystyrene standards 500 KDa,**
4 **200KDa, 100 KDa, 30 KDa, 10 KDa and 5 kDa, obtained from Agilent). Method II: M_w is**
5 **calculated by determining the refractive index increment (dn/dc) using the refractive index**
6 **detector and the assumption of 100% recovery, then using the light scattering detector**
7 **response to determine an absolute molecular weight. Method III: M_n based on calculation of**
8 **degree of polymerization using integrations from the ¹H NMR spectrum.**

9

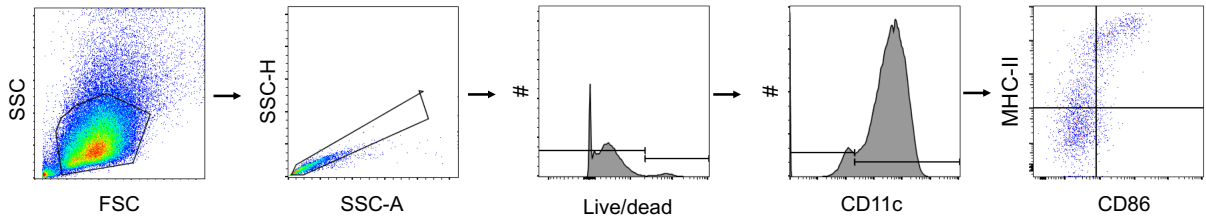


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2 **Figure S3:** Glutamate and Arginine pathways are significantly upregulated in DCs treated
 3 with paKG MPs as compared to no treatment (n=3, avg ± SEM, * - p<0.05).

4

1

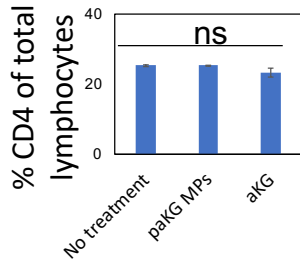


2

3 **Figure S4: Representative images of analyses of DCs using flow cytometry analyses.**

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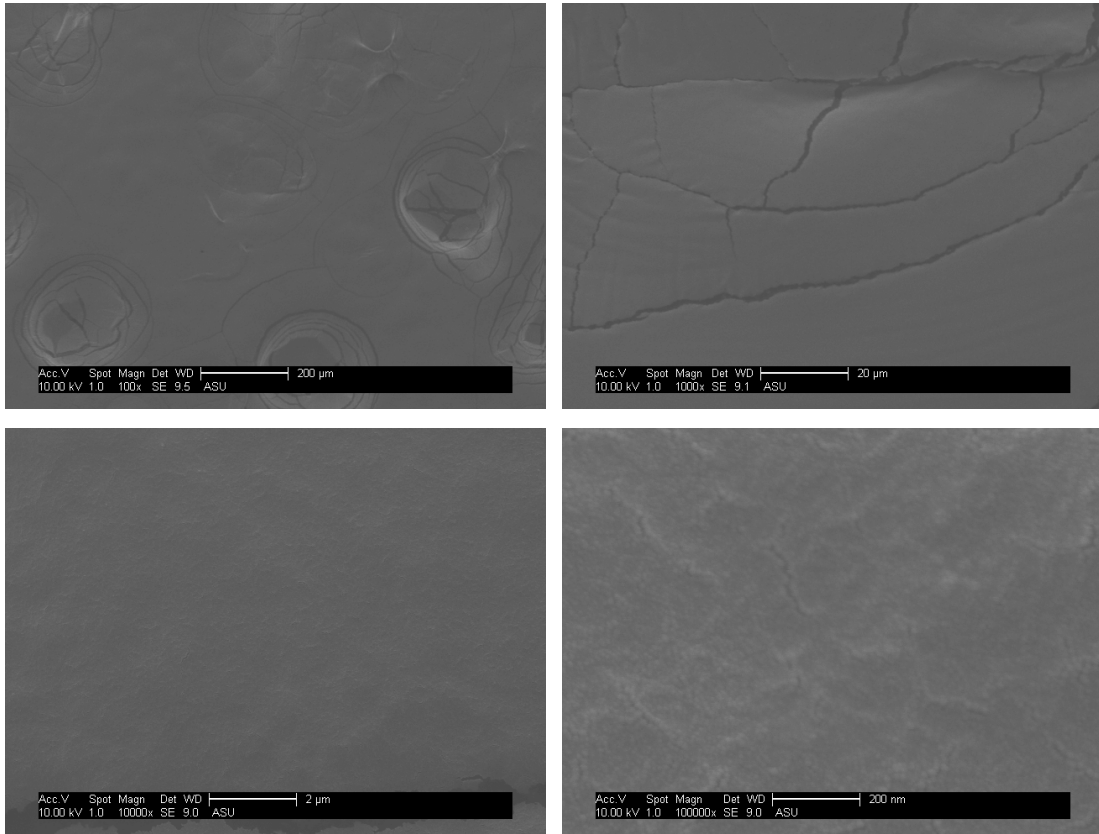
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8 **Figure S5: paKG microparticles do not modulate frequency of CD4 population in**

9 **allogenic MLR (ns = not significant; n=6, avg ± SEM).**

10



1

2 **Figure S6:** Supernatant of aKG particles was visualized under scanning electron microscope
3 at increasing magnification at multiple spots (representative images shown) to confirm that
4 no particles were left in the supernatant (n = 2).

5

6

7