Supplemental Table S1. HagB-induced MMP log10 responses at all time points (N=3). Means and SEM are shown.

Time (hr)	MMP	No cells	DC	Ker	TC	DC+Ker	DC+TC	Ker+TC	DC+Ker+TC
		0.2803	0.2803	0.7380	0.7400	0.9770	0.3680	0.3993	0.3310
0	**1**	0.3243	0.3243	0.3243	0.3243	0.3243	0.3243	0.3243	0.3243
		A	A	A	A	A	A	A	A
		0.4247	0.0000	0.0000	0.0000	0.5937	0.0000	0.0000	0.0000
2	**1**	0.2581	0.2581	0.2581	0.2581	0.2581	0.2581	0.2581	0.2581
		A	A	A	A	A	A	A	A
		0.2647	0.0000	0.2693	0.8990	0.8303	0.7203	0.9993	0.9977
4	**1**	0.2559	0.2559	0.2559	0.2559	0.2559	0.2559	0.2559	0.2559
		A	A	A	A	A	A	A	A
		0.3100	1.1507	0.6023	0.0000	1.2947	1.4060	1.2097	1.5147
8	**1**	0.2981	0.2981	0.2981	0.2981	0.2981	0.2981	0.2981	0.2981
		AB	AB	AB	B	AB	AB	AB	A
		0.2953	2.3007	0.0000	0.0000	2.1277	2.0523	0.0000	2.2083
16	**1**	0.1944	0.1944	0.1944	0.1944	0.1944	0.1944	0.1944	0.1944
		B	A	B	B	A	A	B	A
		0.0000	2.4210	0.0000	0.7493	1.6320	2.3457	0.0000	1.3073
32	**1**	0.4244	0.4244	0.4244	0.4244	0.4244	0.4244	0.4244	0.4244
		B	A	B	AB	AB	A	B	AB
		0.5613	2.2003	0.0000	0.2553	1.4200	1.5467	0.0000	0.3667
64	**1**	0.4254	0.4254	0.4254	0.4254	0.4254	0.4254	0.4254	0.4254
		AB	A	B	AB	AB	AB	B	AB
		0.1540	0.2997	1.2627	0.8850	0.7553	0.3967	0.3777	0.7553
0	**7**	0.3399	0.3399	0.3399	0.3399	0.3399	0.3399	0.3399	0.3399
		A	A	A	A	A	A	A	A
		0.0000	0.0000	0.0000	0.0000	0.4117	0.0000	0.0000	0.0000
2	**7**	0.1455	0.1455	0.1455	0.1455	0.1455	0.1455	0.1455	0.1455
		A	A	A	A	A	A	A	A
		0.4363	0.4360	0.0000	1.3087	0.0000	0.5333	0.8723	1.0270
4	**7**	0.3769	0.3769	0.3769	0.3769	0.3769	0.3769	0.3769	0.3769
		A	A	A	A	A	A	A	A
		0.0000	0.3210	0.6497	0.3210	0.6793	0.3210	1.4180	0.4533
8	**7**	0.3165	0.3165	0.3165	0.3165	0.3165	0.3165	0.3165	0.3165
		A	A	A	A	A	A	A	A
		0.1517	0.4670	0.7413	0.3840	1.3543	1.0653	0.3037	1.0033
16	**7**	0.3601	0.3601	0.3601	0.3601	0.3601	0.3601	0.3601	0.3601
		A	A	A	A	A	A	A	A
		0.4083	1.5097	0.7137	0.6860	1.7680	1.4417	0.9217	2.0017
32	**7**	0.4235	0.4235	0.4235	0.4235	0.4235	0.4235	0.4235	0.4235
		A	A	A	A	A	A	A	A
		0.0000	0.4303	0.6190	0.0000	2.2620	0.6687	0.7683	2.2633
64	**7**	0.4528	0.4528	0.4528	0.4528	0.4528	0.4528	0.4528	0.4528
		B	AB	AB	B	A	AB	AB	A
		0.2047	0.9583	0.1033	0.2637	1.1497	0.2993	0.3757	0.3543
0	**9**	0.3684	0.3684	0.3684	0.3684	0.3684	0.3684	0.3684	0.3684
		A	A	A	A	A	A	A	A
		0.1530	0.0000	0.0000	0.0000	0.8033	0.0000	0.0000	0.3113
2	**9**	0.3094	0.3094	0.3094	0.3094	0.3094	0.3094	0.3094	0.3094
		A	A	A	A	A	A	A	A
		0.6103	1.5637	0.1793	0.2450	1.8540	1.9553	0.5677	1.8610
4	**9**	0.2543	0.2543	0.2543	0.2543	0.2543	0.2543	0.2543	0.2543
		BCD	ABC	D	D	AB	A	CD	A
		0.0000	1.5753	0.0000	0.0000	1.7470	1.7813	0.4510	2.5003
8	**9**	0.5506	0.5506	0.5506	0.5506	0.5506	0.5506	0.5506	0.5506
		A	A	A	A	A	A	A	A

16	**9**	0.0000 0.0704 B	3.2963 0.0704 A	0.0000 0.0704 B	0.0000 0.0704 B	3.2743 0.0704 A	3.2163 0.0704 A	0.0000 0.0704 B	3.2897 0.0704 A
32	**9**	0.0000 0.2082 B	3.6690 0.2082 A	0.3777 0.2082 B	0.1817 0.2082 B	3.8343 0.2082 A	3.6657 0.2082 A	0.0000 0.2082 B	3.4720 0.2082 A
64	**9**	0.0000 0.1901 B	4.2337 0.1901 A	0.0000 0.1901 B	0.2150 0.1901 B	4.3033 0.1901 A	4.0490 0.1901 A	0.4570 0.1901 B	4.1267 0.1901 A
0	**12**	0.0890 0.1464 A	0.0000 0.1464 A	0.1613 0.1464 A	0.1723 0.1464 A	0.0000 0.1464 A	0.1613 0.1464 A	0.0110 0.1464 A	0.2950 0.1464 A
2	**12**	0.0000 0.3118 A	0.7890 0.3118 A	0.0000 0.3118 A	0.0000 0.3118 A	0.6590 0.3118 A	0.9170 0.3118 A	0.0000 0.3118 A	0.8067 0.3118 A
4	**12**	0.1500 0.3039 A	1.0527 0.3039 A	0.0953 0.3039 A	0.0000 0.3039 A	1.0403 0.3039 A	1.0770 0.3039 A	0.0000 0.3039 A	0.9947 0.3039 A
8	**12**	0.3727 0.3687 A	1.2383 0.3687 A	0.1060 0.3687 A	0.0000 0.3687 A	1.5007 0.3687 A	1.4783 0.3687 A	0.4480 0.3687 A	1.5070 0.3687 A
16	**12**	0.0013 0.4296 A	1.5533 0.4296 A	0.3033 0.4296 A	0.0000 0.4296 A	1.7173 0.4296 A	1.3167 0.4296 A	0.1767 0.4296 A	1.4183 0.4296 A
32	**12**	0.1763 0.2988 D	1.6053 0.2988 ABCD	0.2493 0.2988 CD	0.1763 0.2988 D	1.7157 0.2988 AB	1.6447 0.2988 ABC	0.2937 0.2988 BCD	1.7613 0.2988 A
64	**12**	0.0000 0.3549 B	1.2747 0.3549 AB	0.2910 0.3549 AB	0.0000 0.3549 B	1.6913 0.3549 AB	1.3647 0.3549 AB	0.2597 0.3549 AB	1.8563 0.3549 A

Supplemental Table S1. HagB-induced MMP log10 responses at 0, 2, 4, 8, 16, 32, and 64 hours (N=3). Means and SEM are shown. The responses of the control plate (HagB diluent) were subtracted from the responses of the test plate (HagB) to assess only the effect of the presence of HagB in single cell cultures and co-cultures of T-cells (TC), GE keratinocytes (Ker), and dendritic cells (DC). A two-way fixed effect ANOVA was fit to log-transformed concentrations of the MMPs. Pairwise group comparisons were conducted using the post-hoc Tukey's Honest Significant Differences test. A 0.05 level was used determine statistically significant differences between groups. Values with the same letter are not significantly different. Differing letters indicate significantly different means ($p<0.05$).

Supplemental Table S2. 64 hour HagB-induced MMP log10 responses (N=9). Means (SEM) are shown.								
MMP	**No cells**	**DC**	**Ker**	**TC**	**DC+Ker**	**DC+TC**	**Ker+TC**	**DC+Ker+TC**
MMP1	0.123 (0.219) B	1.647 (0.219) A	0 (0.219) B	0.001 (0.219) B	0.415 (0.219) B	0.895 (0.219) A,B	0 (0.219) B	0 (0.219) B
MMP7	0.569 (0.429) A,B	1.067 (0.429) A,B	1.056 (0.429) A,B	0 (0.429) B	1.937 (0.429) A	0.646 (0.429) A,B	1.106 (0.429) A,B	1.885 (0.429) A,B
MMP9	0.219 (0.233) C	3.385 (0.233) A	0 (0.233) C	0.342 (0.233) C	3.315 (0.233) A	3.114 (0.233) A	0.337 (0.233) C	1.704 (0.233) B
MMP12	0.346 (0.272) A,B	0.960 (0.272) A,B	0.375 (0.272) A,B	0.008 (0.272) B	1.284 (0.272) A	1.162 (0.272) A,B	0.709 (0.272) A,B	1.405 (0.272) A

Supplemental Table S2. 64 hour HagB-induced MMP log10 responses (N=9). Means and SEM are shown. The responses of the control plate (HagB diluent) were subtracted from the responses of the test plate (HagB) to assess only the effect of the presence of HagB in single cell cultures and co-cultures of T-cells (TC), GE keratinocytes (Ker), and dendritic cells (DC). A two-way fixed effect ANOVA was fit to log-transformed concentrations of the MMPs. Pairwise group comparisons were conducted using the post-hoc Tukey's Honest Significant Differences test. A 0.05 level was used determine statistically significant differences between groups. Values with the same letter are not significantly different. Differing letters indicate significantly different means ($p<0.05$).