

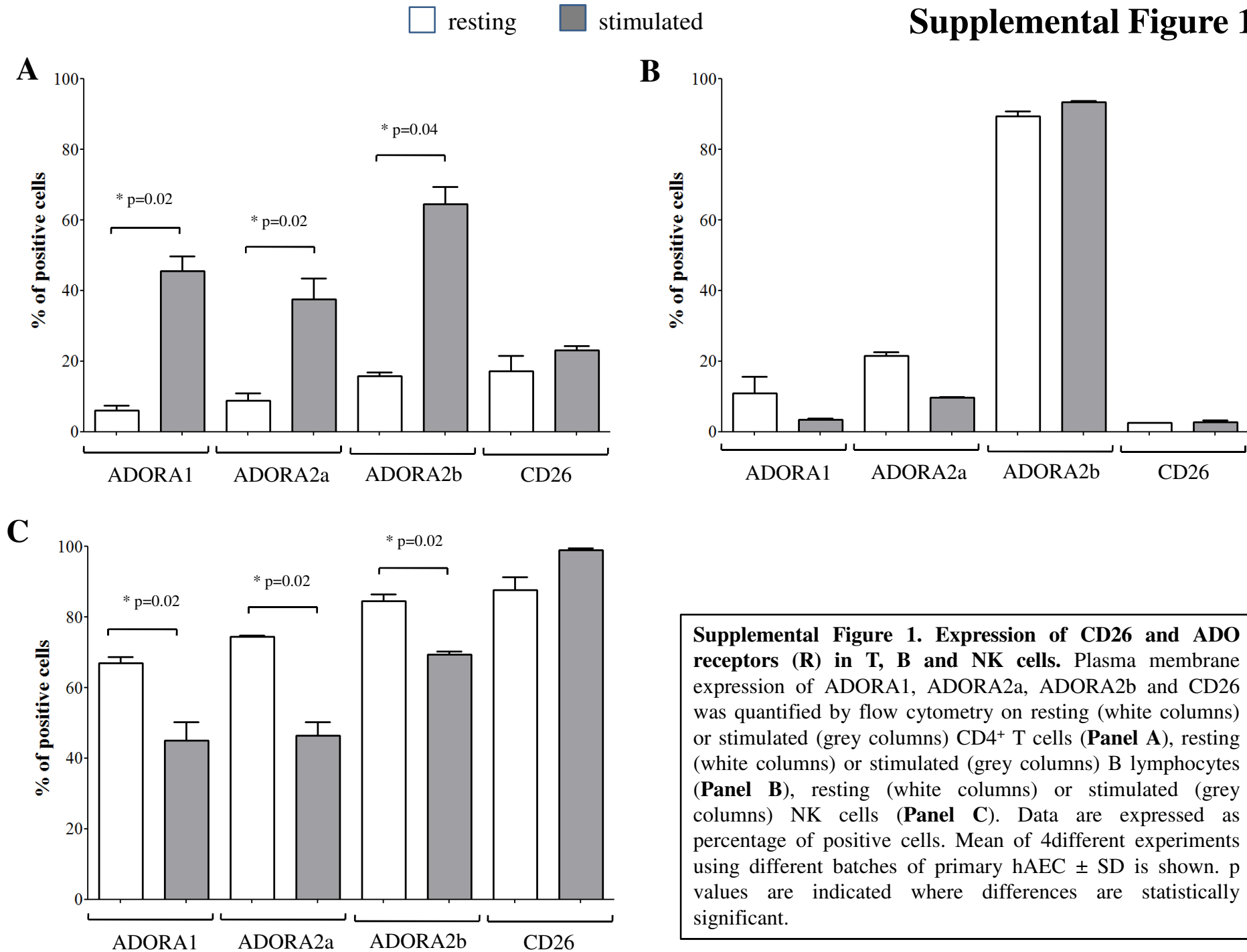
Supplemental Table 1. Immunophenotype of hAEC (Results are expressed as MRFI for hAEC and as % of positive cells for T, B and NK cells).

	hAEC	hAEC		p	T cells		p	B cells		p	NK cells		p
		ctr	rhEGF		resting	activated		resting	activated		resting	activated	
CD38	17.38±5.64	1.33±0.11	1.56±0.21	-	-	-	-	-	-	-	-	-	-
CD203a/PC-1	16.47±2.51	50.3±3.65	38.3±17.11	-	-	-	-	-	-	-	-	-	-
CD39	7.22±1.08	4.42±0.29	5.55±0.34	-	-	-	-	-	-	-	-	-	-
CD73	7.7±0.76	115.5±32.36	670±87.3	0.01	-	-	-	-	-	-	-	-	-
CD157	4.92±0.58	-	-	-	-	-	-	-	-	-	-	-	-
CD26	4±0.81	-	-	-	17.2±7.5	23±2.2	ns	2.53±0.05	2.7±0.9	ns	87.7±6.4	99±1	ns
ADORA1	3.5±0.74	-	-	-	6±2.8	45.5±8.6	0.02	11±9.2	3.5±0.5	ns	67±4.2	45±10.3	0.02
ADORA2a	8.33±0.98	-	-	-	8.7±4.3	37.5±12.1	0.02	21.6±2.4	9.7±0.34	ns	74.5±0.7	46.5±7.5	0.02
ADORA2b	19.2±15.4	-	-	-	15.7±2	64.5±9.8	0.04	89.5±3.5	93.5±0.5	ns	84.5±4.9	69.5±1.7	0.02

Supplemental Table 2. hAEC-mediated modulation of the proliferation of T, B and NK cells (results are expressed as % of proliferating cells±SD).

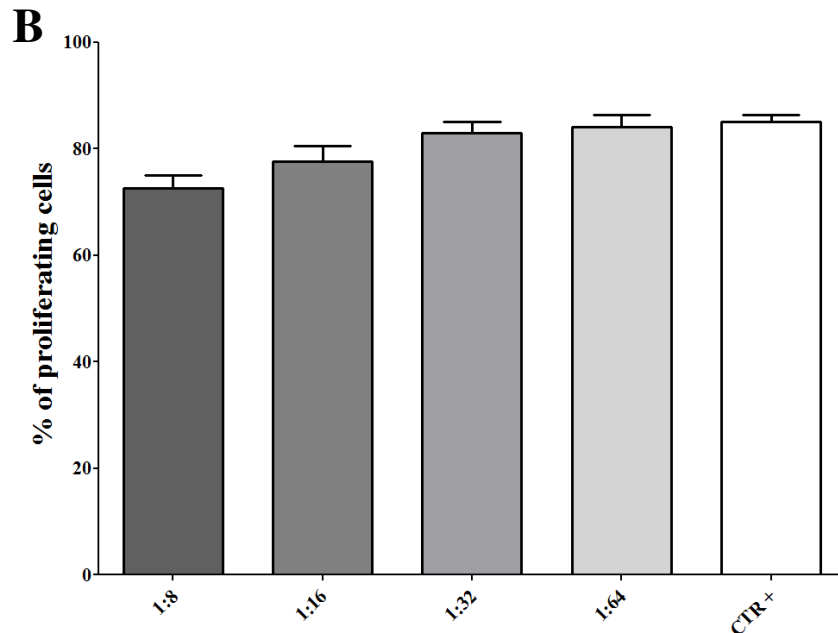
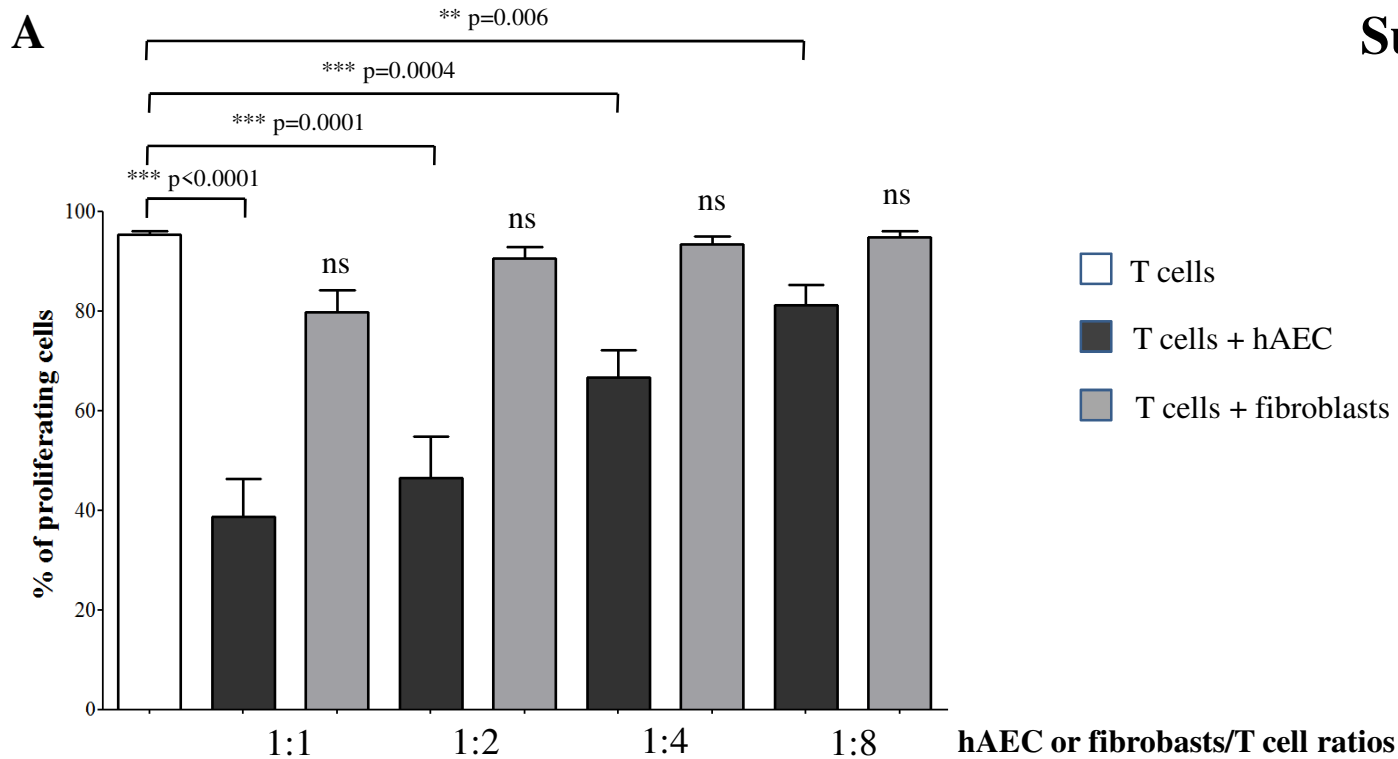
	ratios	inhibitors	T cells	p	B cells	p	NK cells	p	NK cells*	p
CTR+	-	-	93.82±2.2		65.1±1.5		62.3±3.2		85±3.5	
hAEC	1:1	-	28.8±14.3	<0.0001	76.8±4.7	<0.0001	55.8±4.7	0.02	-	-
	1:2	-	51.2±17.6	<0.0001	75.7±7.8	0.0017	50.5±7.5	0.007	-	-
	1:4	-	72.5±13.8	<0.0001	76.7±4.1	<0.0001	44.4±4.8	<0.0001	-	-
	1:8	-	87.1±7.5	0.0003	76.3±3.6	0.0003	51.5±5.6	0.003	72.6±5.9	0.001
	1:16	-	-	-	-	-	-	-	77.6±6.9	0.04
	1:32	-	-	-	-	-	-	-	83±4.9	ns
	1:64	-	-	-	-	-	-	-	84.1±5.3	ns
CTR+	-	-	95.4±1.7							
hAEC	1:1	-	38.6±7.7	<0.0001						
	1:2	-	46.5±8.2	0.0001						
	1:4	-	66.6±16.3	0.0004						
	1:8	-	81.1±10	0.006						
fibroblasts	1:1	-	79.8±10.8	ns						
	1:2	-	90.5±5.7	ns						
	1:4	-	93.3±4.2	ns						
	1:8	-	94.7±3	ns						
CTR+	-	-	77.7±10.7		65.1±1.5		62.3±3.2			
hAEC	1:1	-	30.8±11.3	0.0002	76.8±4.7	<0.0001	55.8±4.7	0.02		
	1:1	APCP	45.1±16	<0.0001	79.1±5	<0.0001	49.2±5.4	<0.0001		
	1:1	β-γ methyl ATP	49.6±8.9	<0.0001	83.8±3.8	<0.0001	48.6±8.3	ns		
	1:1	POM-1	47.7±11.1	<0.0001	66.8±10.3	<0.0001	41.4±13.6	0.03		
	1:1	kuromanin	37.3±10.3	ns	-	-	-	-		
CTR+	-	-	97±1.2							
hAEC	1:1	-	19.3±3.9	0.01						
	1:2	-	44.6±4.7	0.01						
	1:4	-	63.7±6.3	0.01						
	1:8	-	78.8±3.2	0.01						
hAEC + rhEGF	1:1	-	15.8±4.5	0.05						
	1:2	-	35.9±6.2	0.05						
	1:4	-	60.71±9.6	ns						
	1:8	-	67.99±10.6	ns						
CTR+	-	-	95.9±0.7				53.9±1.5			
hAEC	1:1	-	62.4±1.9	0.01			20.7±0.8	0.01		
	1:1	ZM 241385	74.2±2.7	0.01			32.7±1	0.01		
	1:1	MRS 1706	67.4±4.2	ns			37.7±0.1	0.01		
	1:1	DPCPX	74.2±0.4	0.01			23.7±1.9	ns		

Supplemental Figure 1



Supplemental Figure 1. Expression of CD26 and ADO receptors (R) in T, B and NK cells. Plasma membrane expression of ADORA1, ADORA2a, ADORA2b and CD26 was quantified by flow cytometry on resting (white columns) or stimulated (grey columns) CD4⁺ T cells (**Panel A**), resting (white columns) or stimulated (grey columns) B lymphocytes (**Panel B**), resting (white columns) or stimulated (grey columns) NK cells (**Panel C**). Data are expressed as percentage of positive cells. Mean of 4 different experiments using different batches of primary hAEC ± SD is shown. p values are indicated where differences are statistically significant.

Supplemental Figure 2



Supplemental Figure 2. Panel A. T cell proliferation in the presence of hAEC or fibroblasts. CD4⁺ T cells stimulated with beads coated with anti-CD3 and anti-CD28 mAbs (white bar) were co-cultured with hAEC (black bars) or fibroblasts (grey bars) at hAEC/fibroblasts:T cell ratios ranging from 1:1 to 1:8. T cell proliferation was assessed by CFSE dilution method using a flow cytometer. Results are expressed as percentage of proliferating cells. Mean \pm SD of 6 experiments is shown.

Panel B. Modulation of NK cell proliferation by hAEC. NK cells stimulated with IL-15 (white bar) were co-cultured with hAEC at hAEC:NK cell ratios ranging from 1:8 to 1:64 (grey bars). NK cell proliferation was assessed by CFSE dilution method using a flow cytometer. Results are expressed as percentage of proliferating cells. Mean of 6 experiments \pm SD is shown.