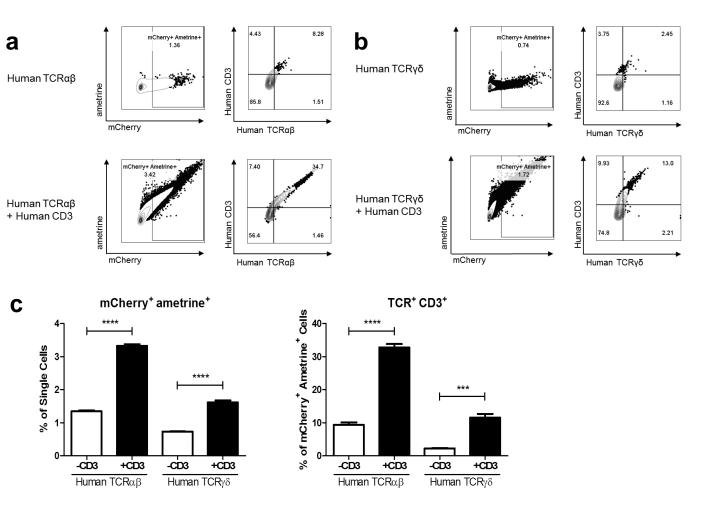
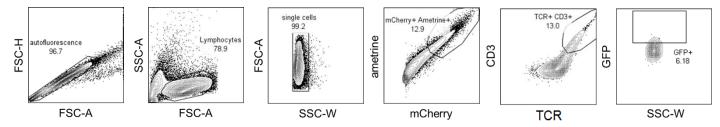
		Std.	
	Mean	Deviation	Std. Error
TRGV9/			
TRDV2	20.06	16.11	4.306
TRGV4/			
TRDV1	12.71	15	4.008
TRGV8/			
TRDV1	8.714	10.63	2.842
TRGV9/	0.057	04.05	5.00
TRDV3 TRGV2/	8.357	21.25	5.68
TRDV1	7.836	14.61	3.906
TRGV1/	7.030	14.01	5.900
TRDV2	4.643	13.51	3.61
TRGV3/	1.010	10.01	0.01
TRDV3	4.35	13.09	3.498
TRGV9/			
TRDV1	4.279	8.702	2.326
TRGV4/			
TRDV3	4.071	9.059	2.421
TRGV3/			
TRDV1	4.029	5.646	1.509
TRGV2/	0.074	0.004	0.050
TRDV3	3.071	8.801	2.352
TRGV5/ TRDV3	2.643	6.744	1.802
TRGV8/	2.045	0.744	1.002
TRDV2	1.971	5.388	1.44
TRGV5/			
TRDV1	1.871	3.633	0.9711
TRGV2/			
TRDV2	1.871	3.633	0.9711
TRGV8/			1
TRDV3	1.643	4.557	1.218
TRGV2/ TRAV29			
/DV5	1.492	4.706	1.305
TRGV3/	1.102	1.100	1.000
TRDV2	1.279	2.922	0.7808
TRGV10			
/TRDV1	1.071	2.31	0.6175
TRGV9/			
TRAV38	<b>. .</b> ·		
-2/DV8	0.3571	1.336	0.3571
TRGV4/	0 1957	0.6040	0 1957
TRDV2 TRGV9/	0.1857	0.6949	0.1857
TRAV29			
/DV5	0.1714	0.6414	0.1714
	0	0.0111	0

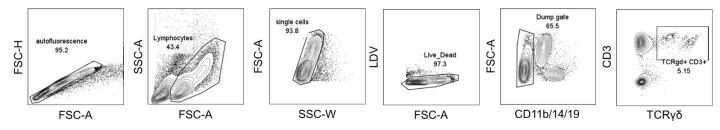
**Supplemental Table S1. TRGV/TRDV repertoire among 14 human samples.** The percentage of paired TRGV/TRDV usage was analyzed from the sequencing results of each 14 human PBMC samples. Average values, standard deviation and standard error were reported.



Supplemental Figure S1. Co-transfection of human CD3 can improve the expression of human TCR constructs. (a-b) Comparison of single transfection of human TCR constructs and co-transfection of human TCR constructs and human CD3. (c) Quantification of mCherry/ametrine and TCR/CD3 expression is shown. Statistical differences were determined by One-way ANOVA; p < 0.05 was considered statistically significant. Data are mean  $\pm$  SEM of two independent experiments\*\*\*p < 0.001, \*\*\*\*p < 0.0001.



**Supplemental Figure S2. Gating strategy of TCR-transfected-NJ76 cells in flow cytometry.** The data of TCR-transfected-NJ76 cells after stimulation in Figure 3 were analyzed by applying the gating strategy to all the samples. The gating is flowing "autofluorescence gate – lymphocytes gate – single cell gate – mCherry<sup>+</sup>Ametrine<sup>+</sup> gate – TCR<sup>+</sup>CD3<sup>+</sup> gate – GFP<sup>+</sup> gate".



Supplemental Figure S3. Gating strategy of Human TCR $\gamma/\delta^+$  CD3<sup>+</sup> cells single cell sorting. Single cell of human TCR $\gamma\delta^+$  CD3<sup>+</sup> cells from PBMC samples were sorted into 96-well plate by applying the gating strategy above. The gating is flowing "autofluorescence gate – lymphocytes gate – single cell gate – live/dead gate – dump gate (CD11b/14/19) – TCR $\gamma\delta^+$ /CD3<sup>+</sup> gate".