

Certificate of Analysis

Live Cell count	1.6 million per vial
Viability	95%
CD8+	97%
CD8+ Neg Tetramer+	0.7%
CD8+HER2/neu Tetramer+	44.5%
Sterility	Negative for Bacteria, Yeast, and Fungi

Donor Information

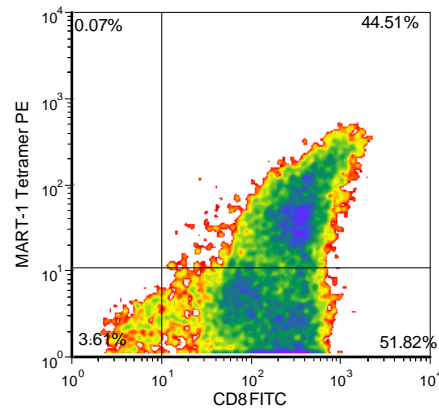
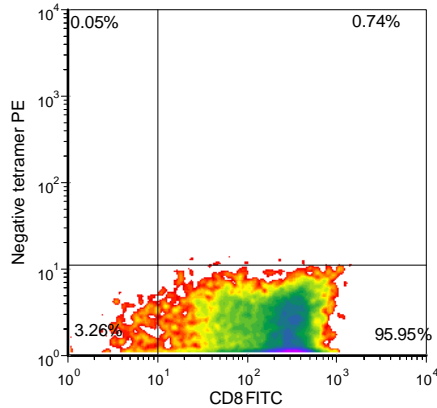
Donor ID	396
Age	48
Gender	Male
Race	Caucasian
Height	5'11"
Weight	245
ABO Type	A positive

HLA typing

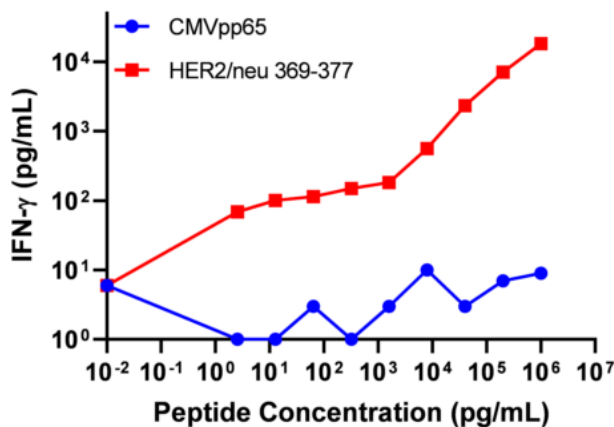
	Allele 1	Allele 2
HLA-A	*0201	*2402
HLA-B	*0702	*1501
HLA-C	*03	*05
HLA-DRB1	*0401	*1301

Donors are tested for the blood borne pathogens HIV-1 and 2, Hepatitis B, Hepatitis C and HTLV-1 and are negative. Cells should still be handled as if potentially infectious following biosafety level 2 procedures

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE



Neg tetramer = HLA-A*0201-PE iTag MHC Tetramer (MBL International, Woburn, MA); HER2/neu tetramer = HER2/neu (396-377) peptide (KIFGSLAFL)/HLA-A*0201-PE iTag MHC Tetramer (MBL International, Woburn, MA)

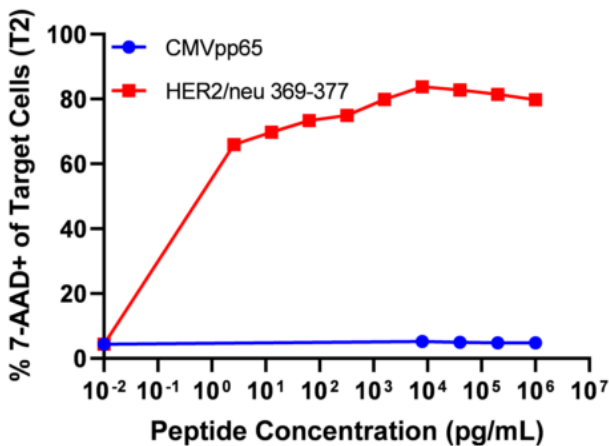


Functional assay of anti-HER2/neu T cells.

20,000 T cells were plated in a 96-well round-bottom plate alone or in the presence of 20,000 T2 cells, a B-LCL expressing HLA-A*0201) alone or in the presence of increasing concentrations of HLA-A*0201 restricted CMVpp65 peptide (NLVPMVATV) or HLA-A*0201 restricted HER2/neu₃₆₉₋₃₇₇ (KIFGSLAFL). Assay media is RPMI-1640 + 10% FBS + 2 mM L-Glutamine.

Supernatants were collected after 18-24 hours of incubation. IFN-γ concentration was analyzed using the Meso Scale Discovery IFN-γ assay (upper figure).

The remaining cells were labelled with 7-AAD and analyzed for cell viability/death on a flow cytometer. Percent cytotoxicity, represented by % 7-AAD+ target cells (T2) is reported against peptide concentration (lower).



FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE