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Figure 1A

CD33Mylo-BBZ CAR (CD33.1-BBz CAR)

MyloVH-MyloVL	CD8	4-1BB	CD3 zeta
---------------	-----	-------	-------------

CD33Mylo-CD28Z CAR (CD33.1-CD28z CAR)

MyloVH-MyloVL	CD28	CD3 zeta
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CD33M195-BBZ CAR (CD33.3-BBz CAR)

M195VH-M195VL	CD8	4-1BB	CD3 zeta
---------------	-----	-------	-------------

CD33M195-CD28Z CAR (CD33.3-CD28z CAR)

M195VH-M195VL	CD28	CD3 zeta
---------------	------	-------------

CD33Hu195-BBZ CAR (CD33.2-BBz CAR)

Hu195VH-Hu195VL	CD8	4-1BB	CD3 zeta
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CD33Hu195-CD28Z CAR (CD33.2-CD28z CAR)

Hu195VH-Hu195VL	CD28	CD3 zeta
-----------------	------	-------------

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Figure 1B

CD123-BBZ CAR

CD123VH-CD123VL	CD8	4-1BB	CD3 zeta
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CD123-CD28Z CAR

CD123VH-CD123VL	CD28	CD3 zeta
-----------------	------	-------------

CD33.2-BBz-mCherry CAR

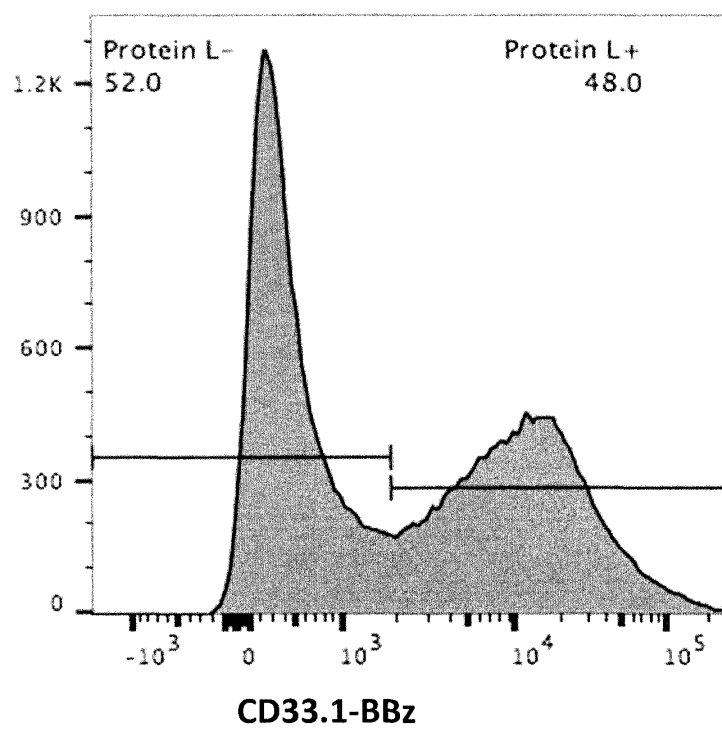
Hu195VH-Hu195VL	CD8	4-1BB	CD3 zeta	mCherry
-----------------	-----	-------	-------------	---------

CD33.2-CD28z-mCherry CAR

Hu195VH-Hu195VL	CD28	CD3 zeta	mCherry
-----------------	------	-------------	---------

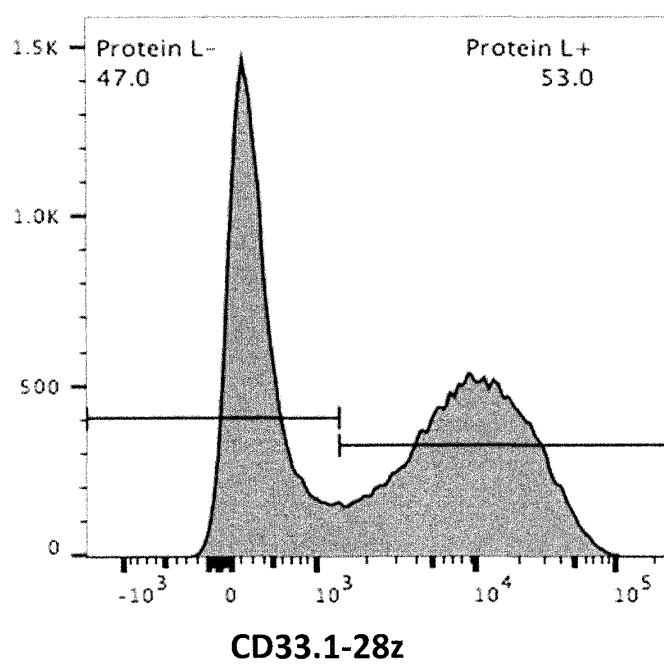
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Figure 2A



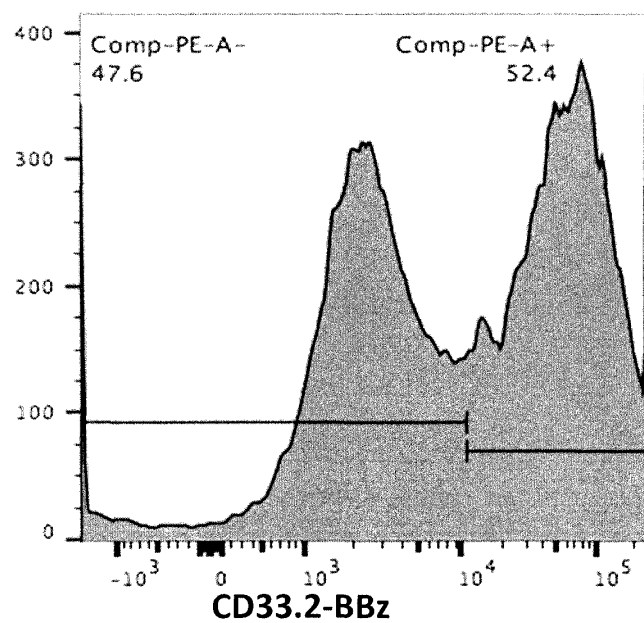
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Figure 2B



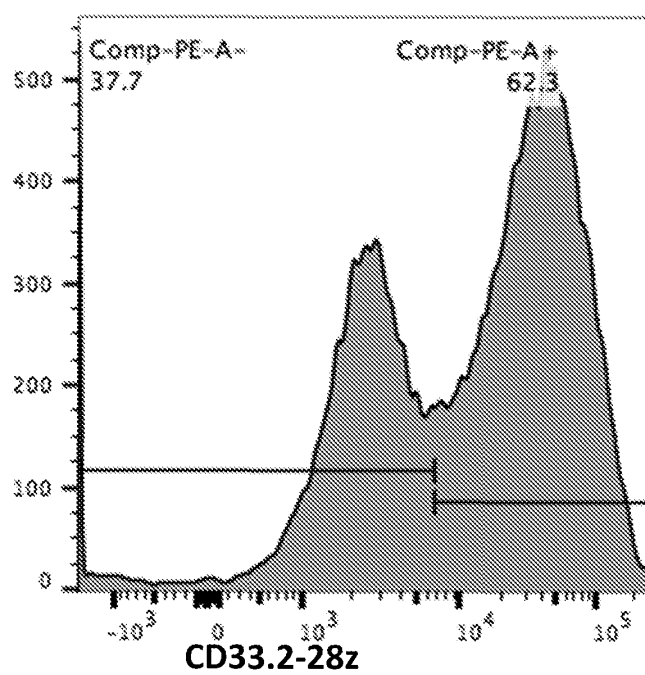
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Figure 2C



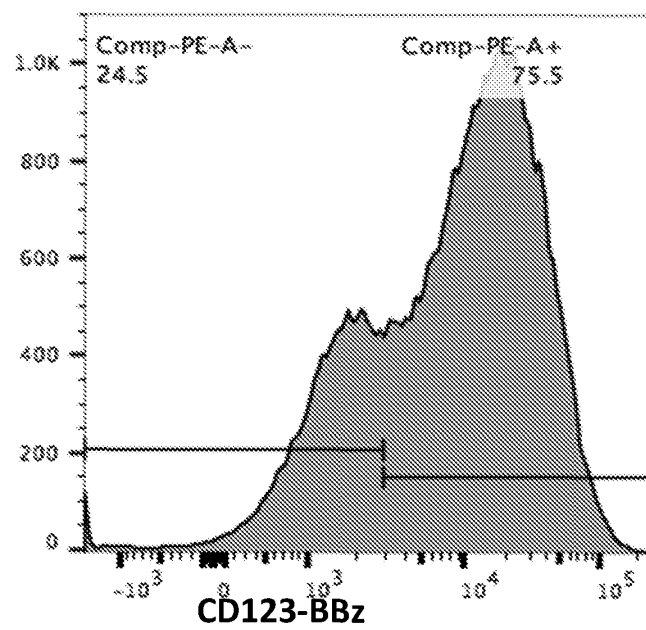
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Figure 2D



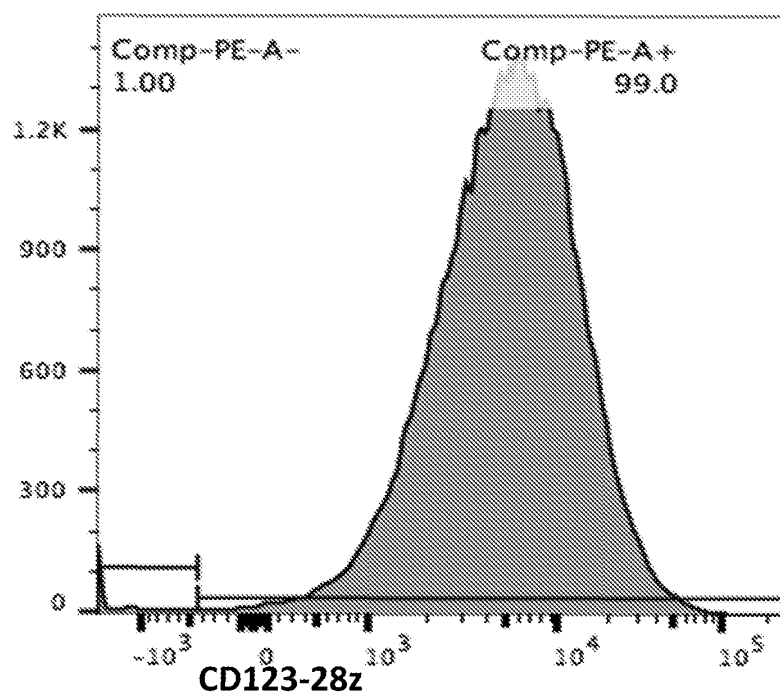
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Figure 2E



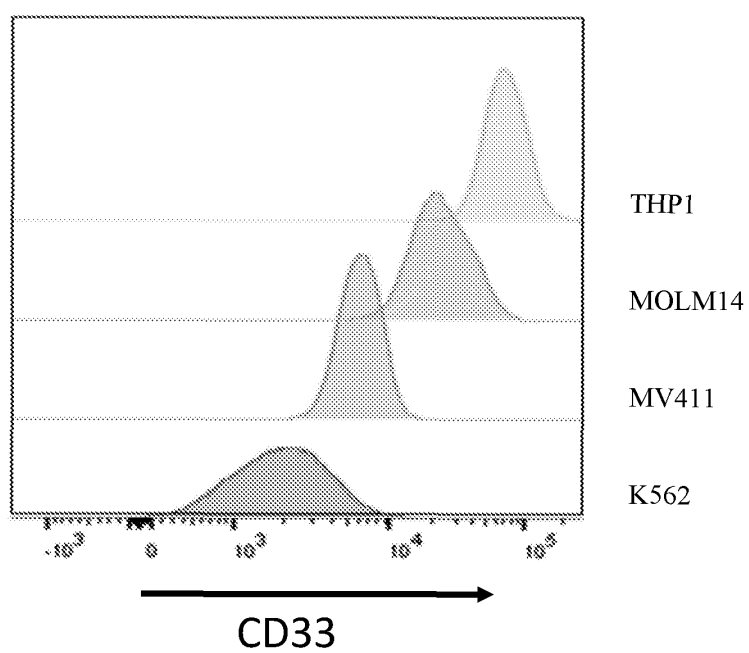
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Figure 2F



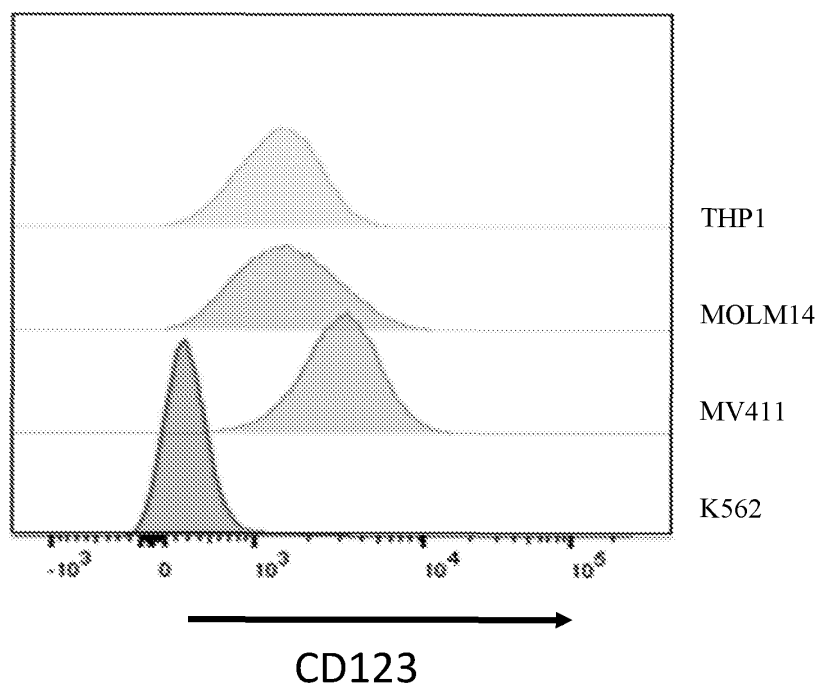
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Figure 3A



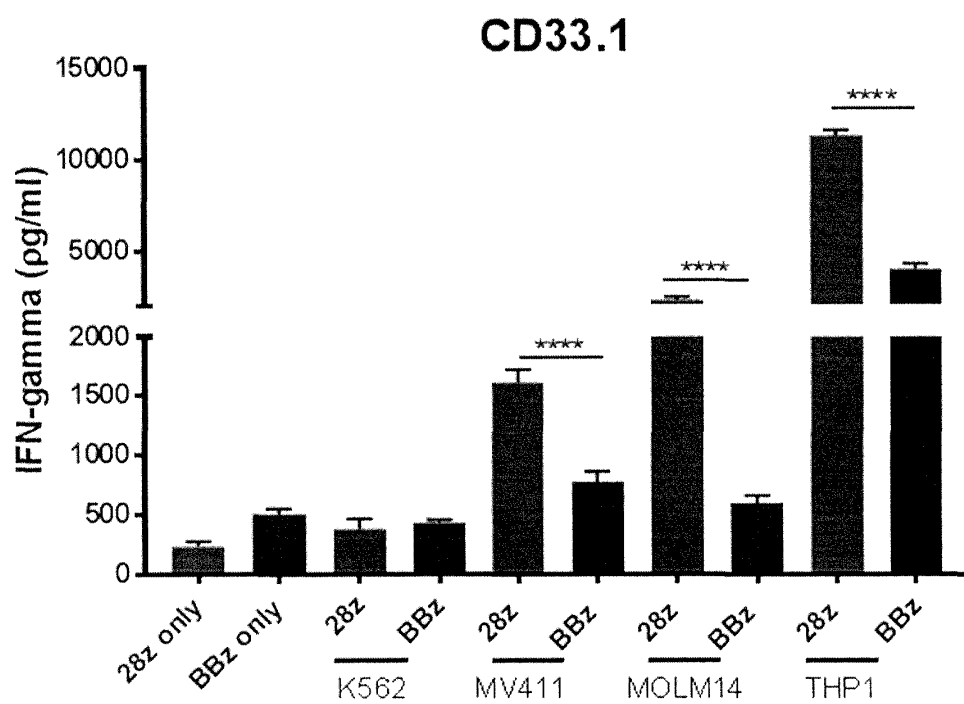
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Figure 3B



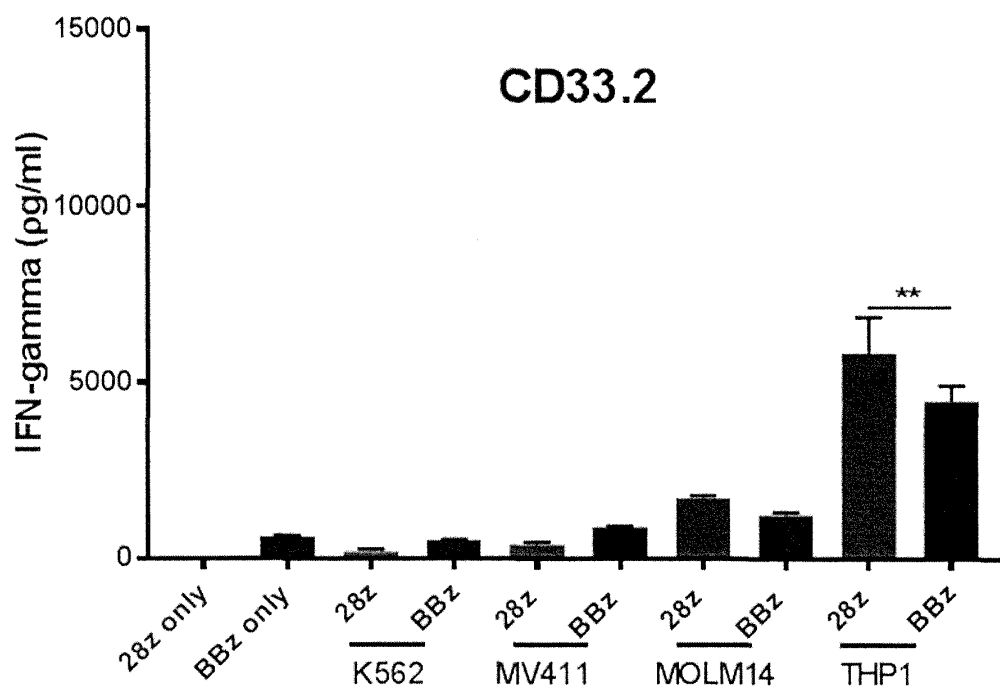
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Figure 4A



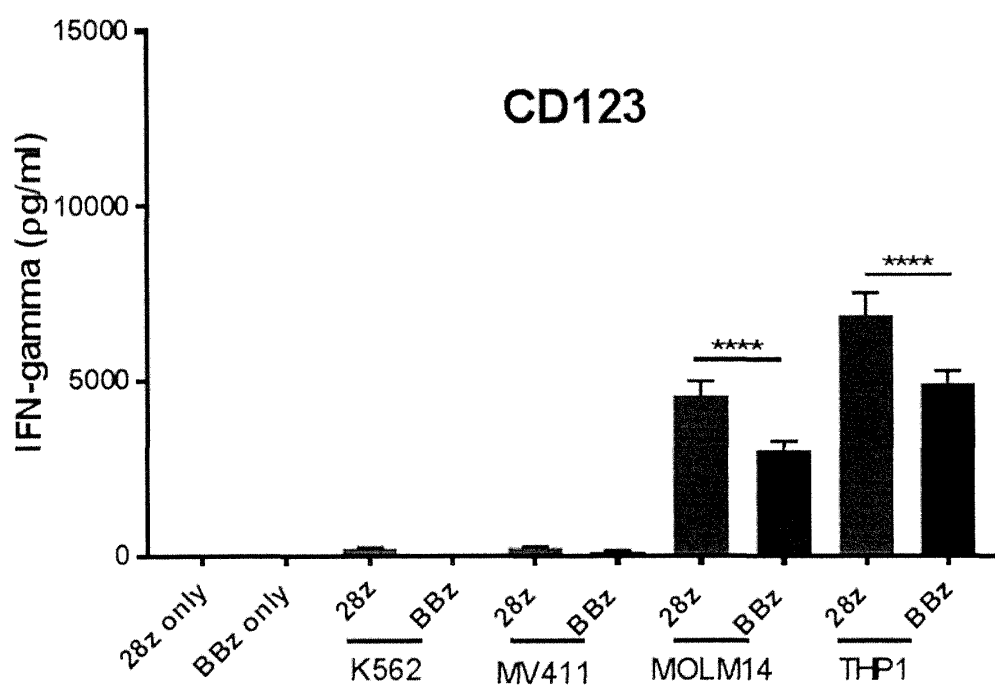
12/42

Figure 4B



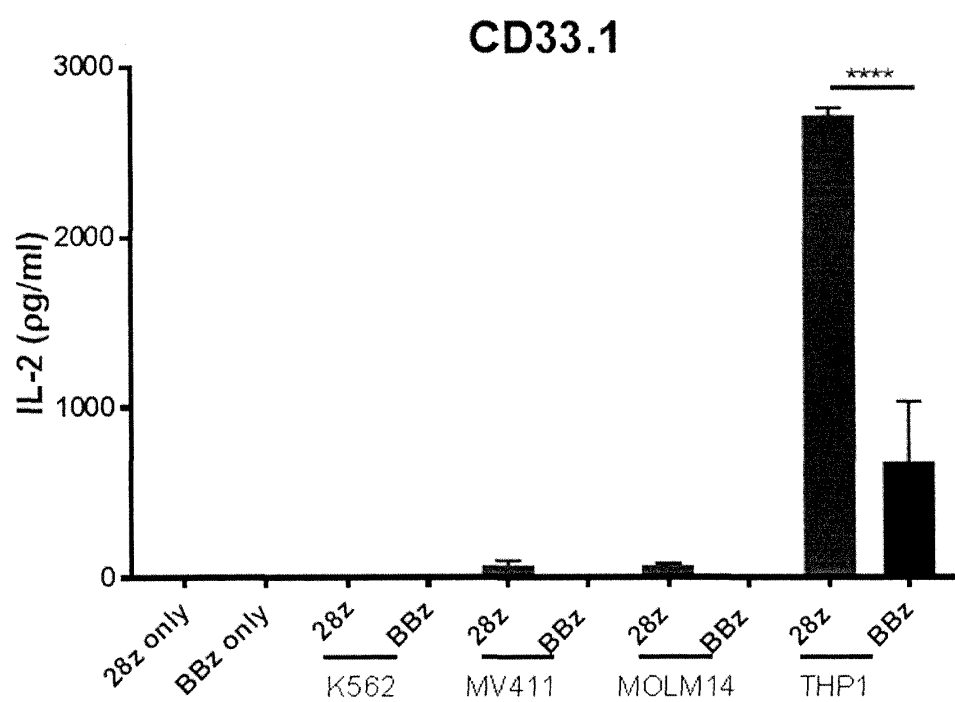
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Figure 4C



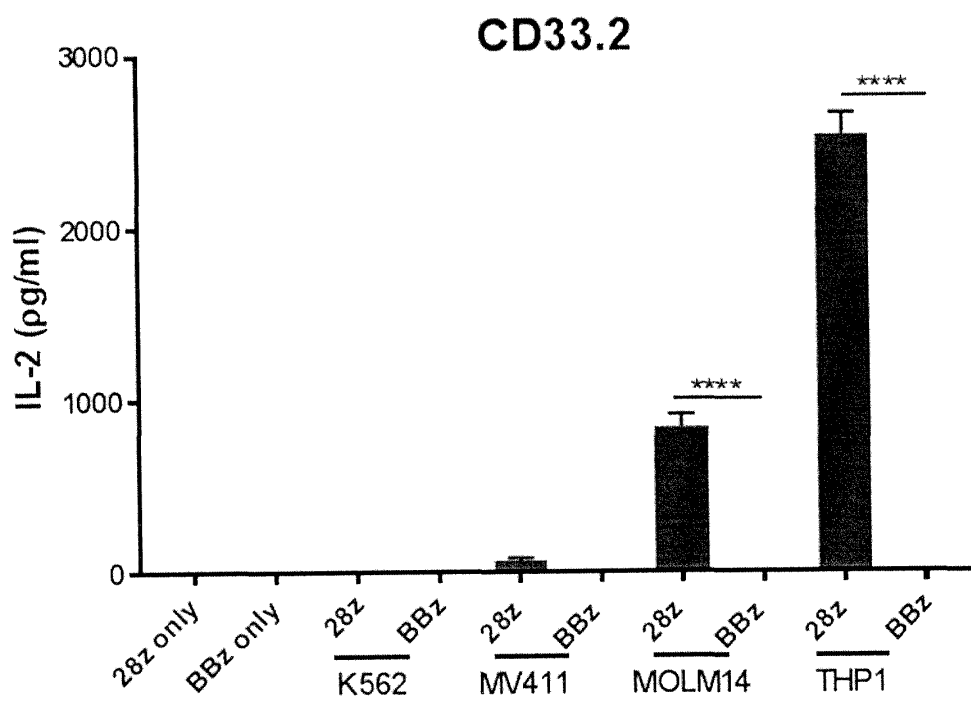
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Figure 4D



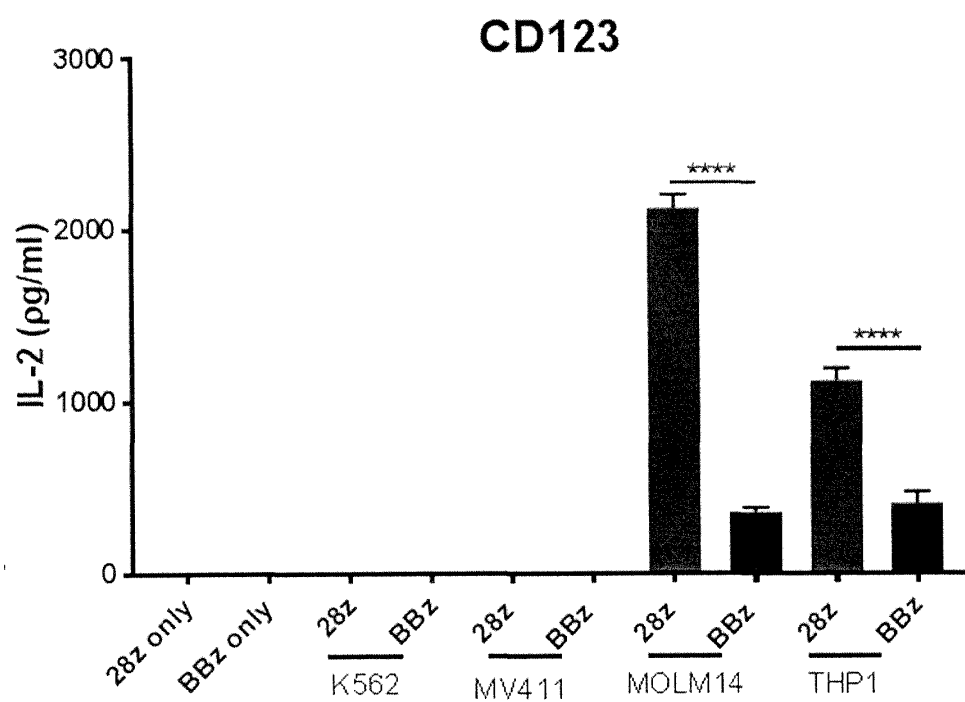
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Figure 4E



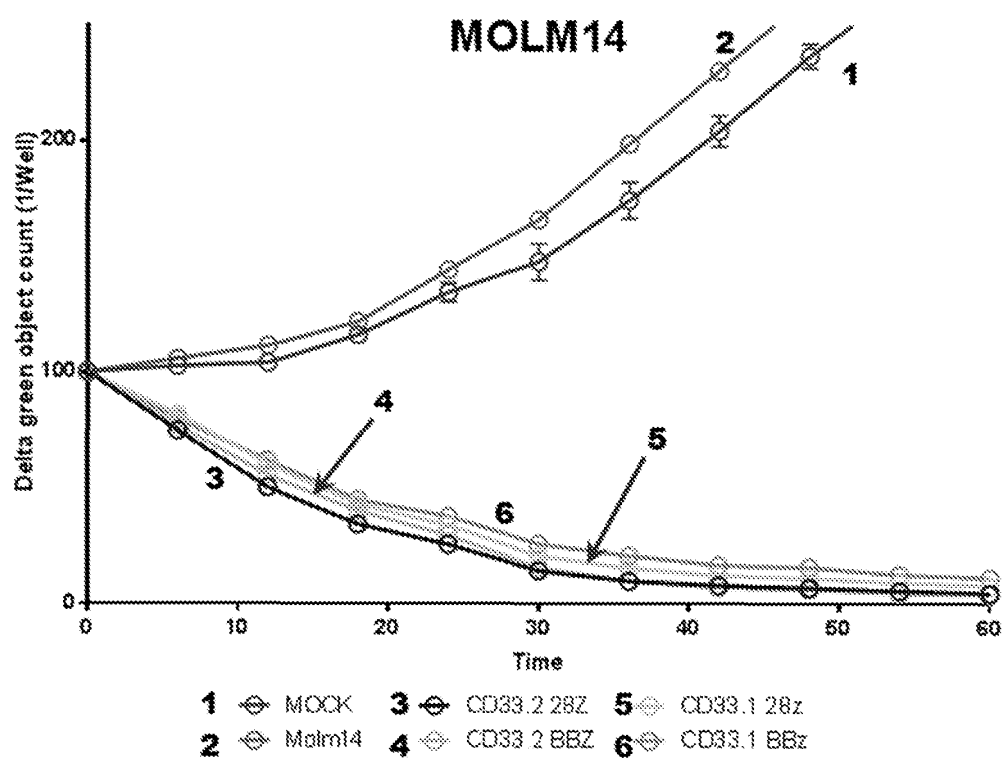
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Figure 4F



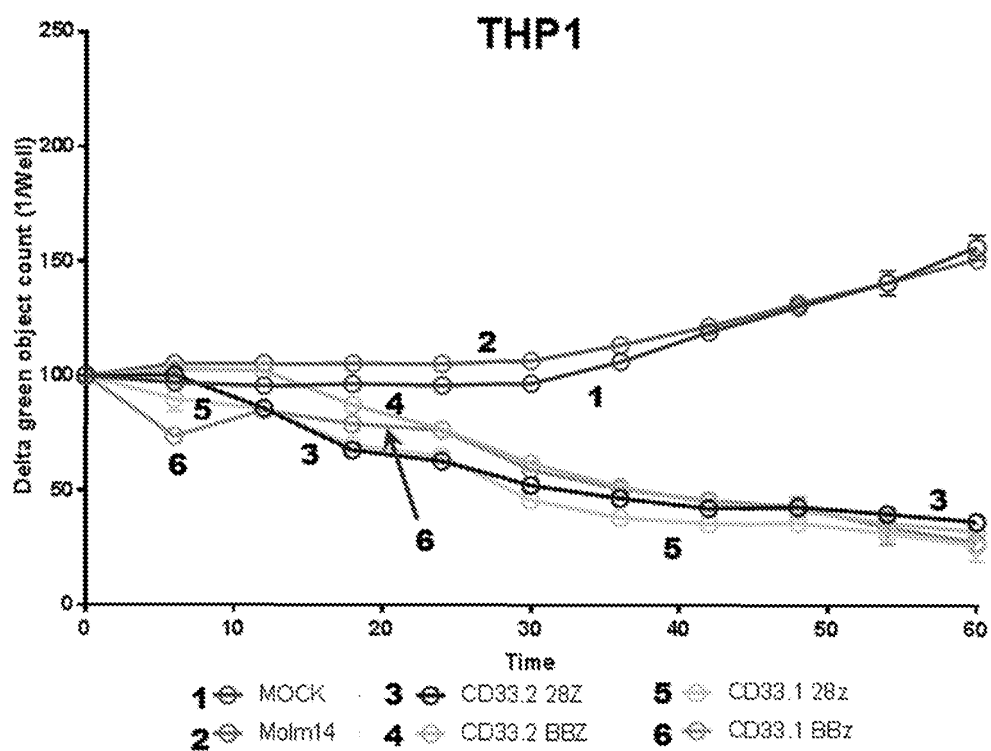
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Figure 5A



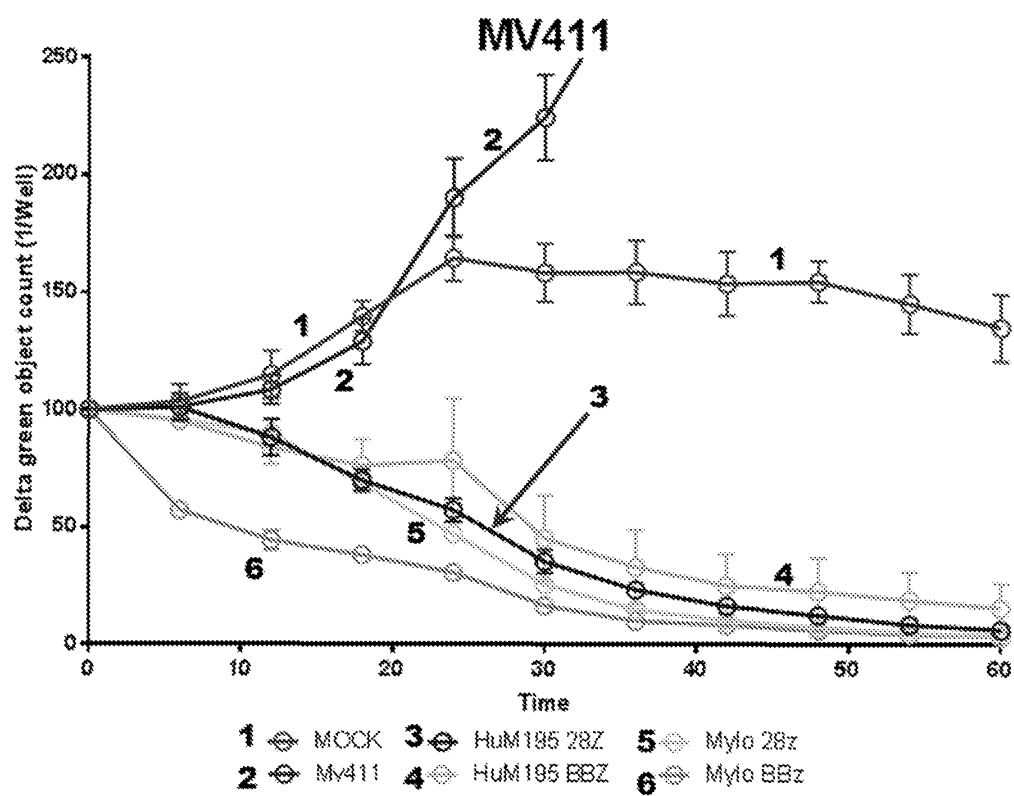
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Figure 5B



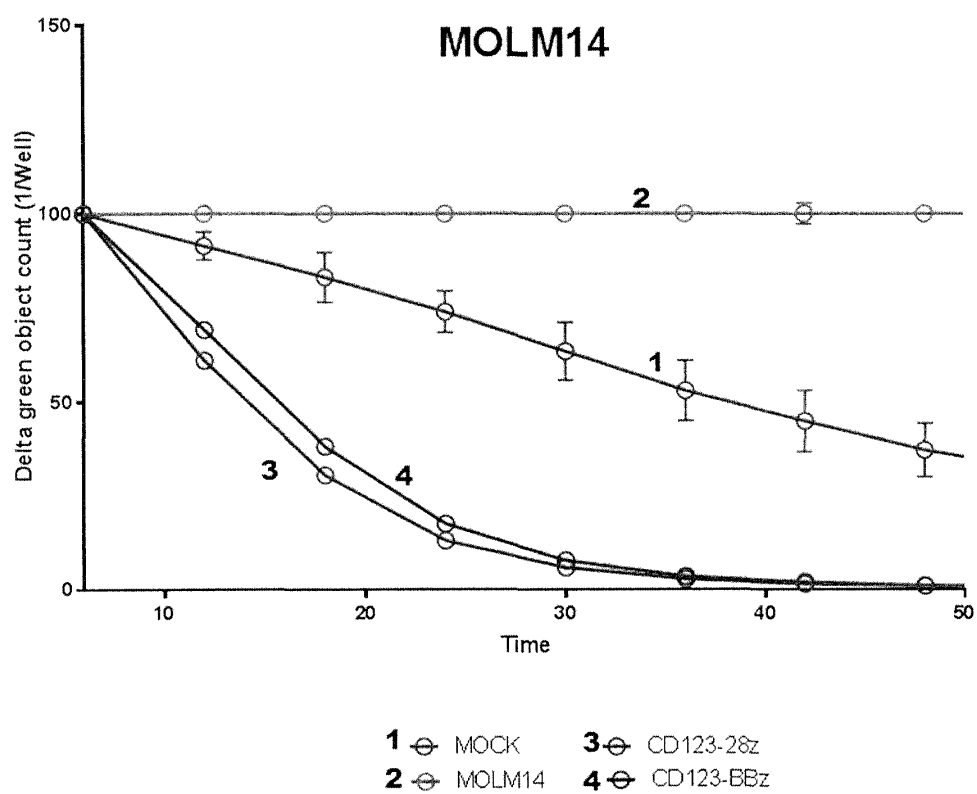
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Figure 5C



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Figure 5D



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Figure 5E

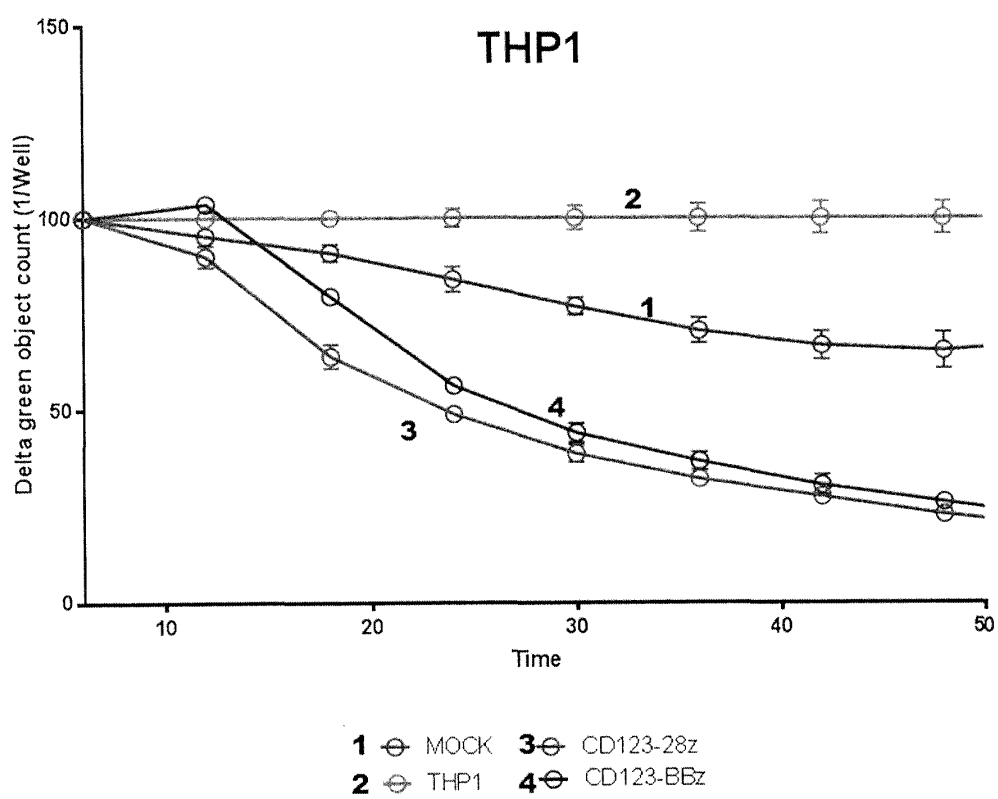


Figure 6A

Day 0 Injected 1E6 THP1
Day 15: Inject 6E6 CARs



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Figure 6B

Day 0 : Injected 1E6 THP1

Day 11: ADT 6E6 CAR

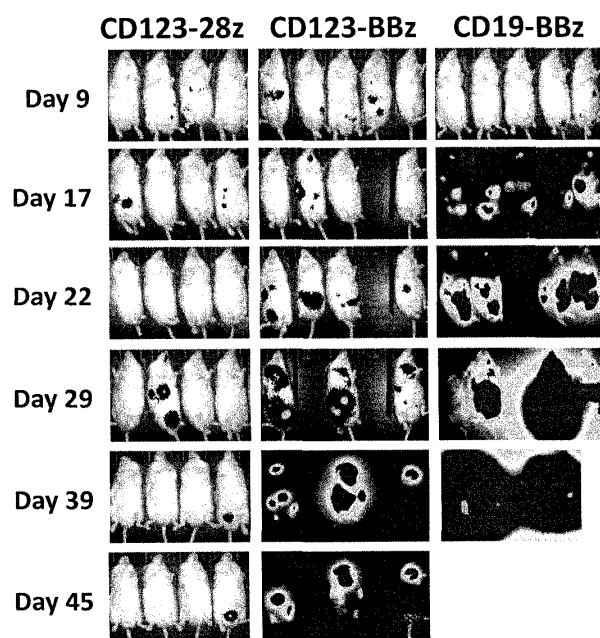


Figure 6C

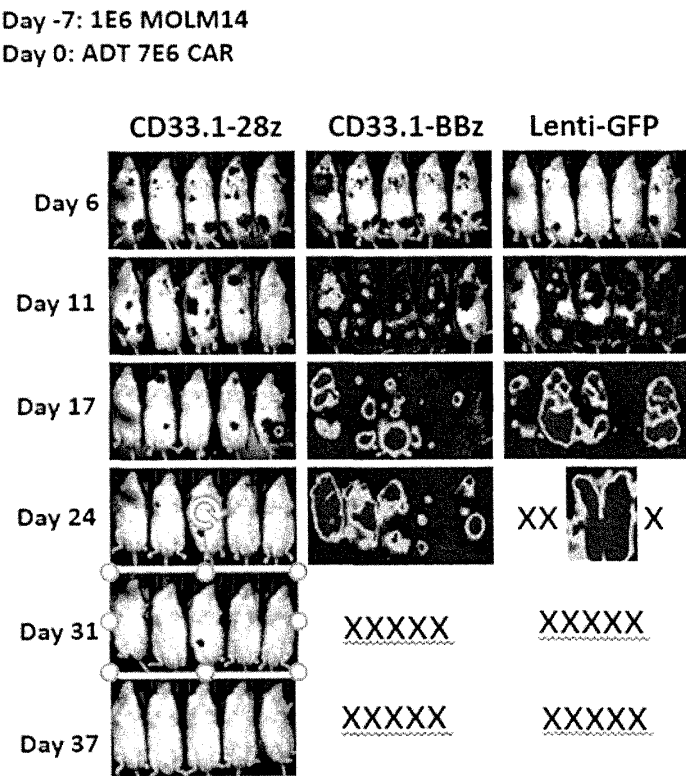


Figure 6D

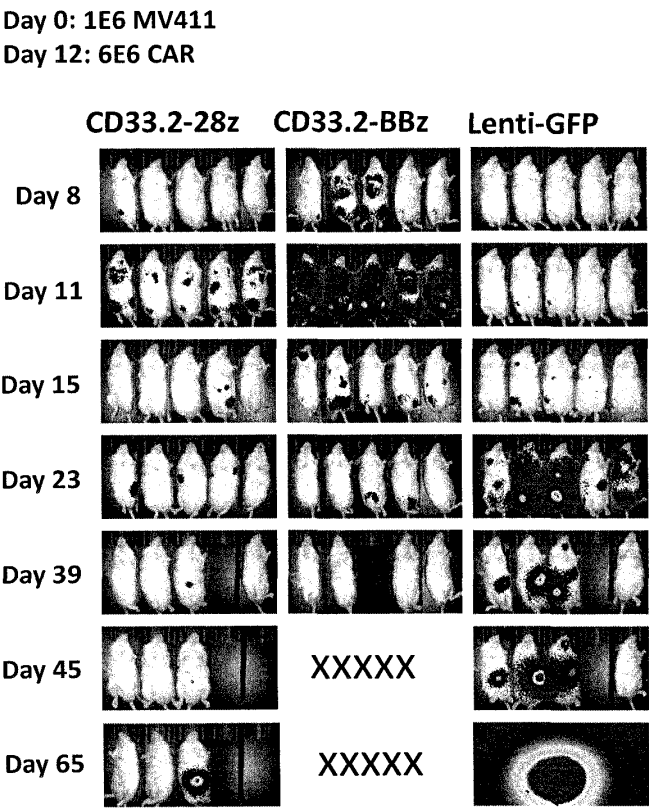


Figure 6E

Day -7: 1E6 MOLM14
Day 0: ADT CAR

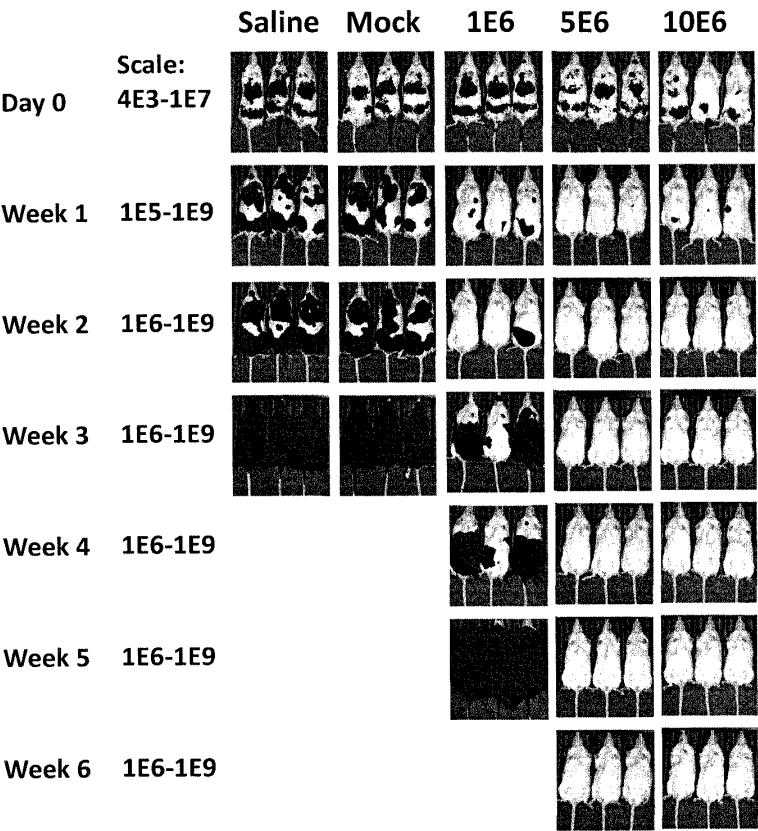
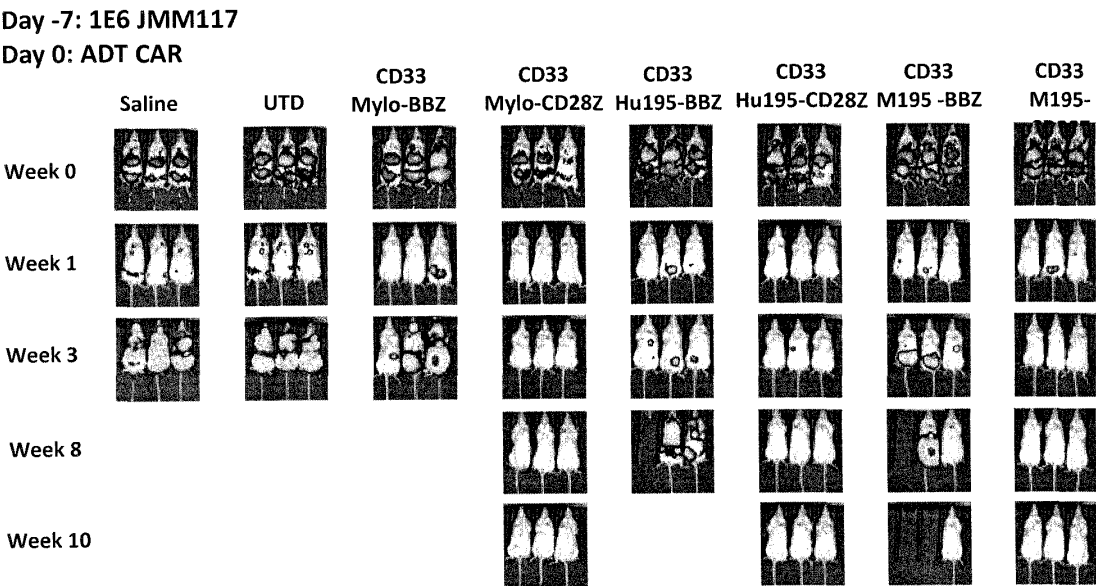
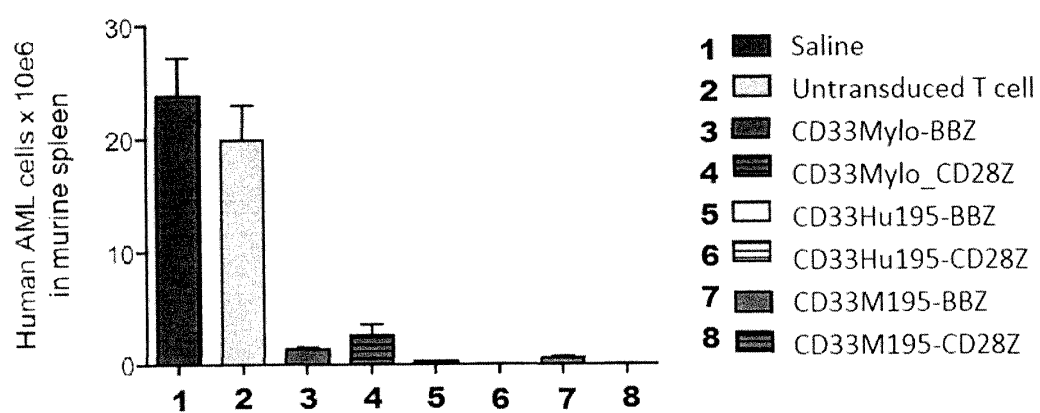


Figure 7A



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Figure 7B



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Figure 7C

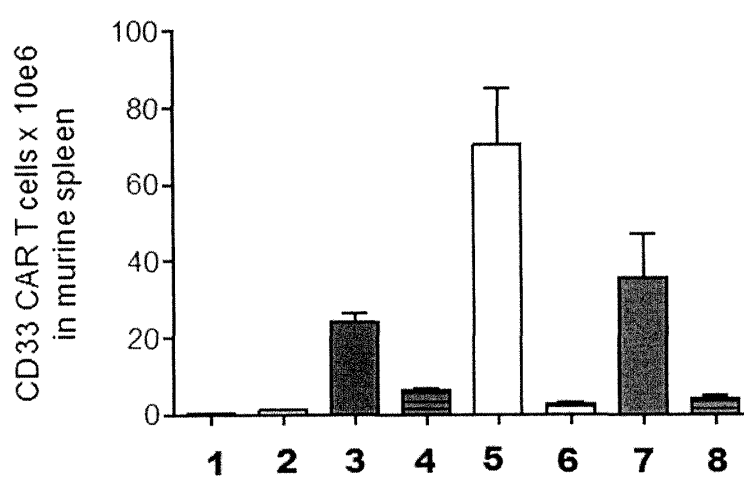
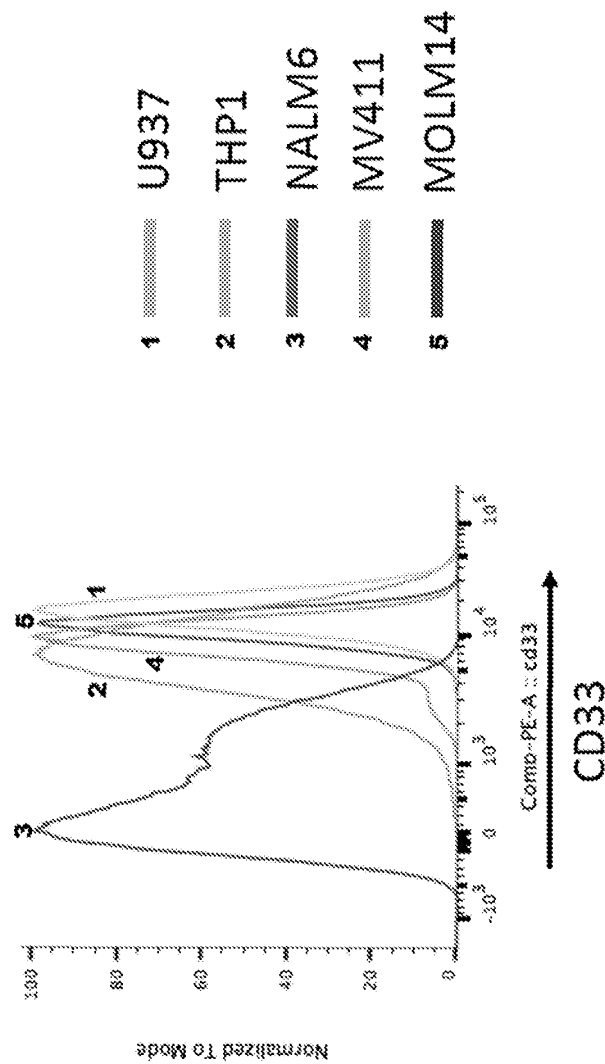
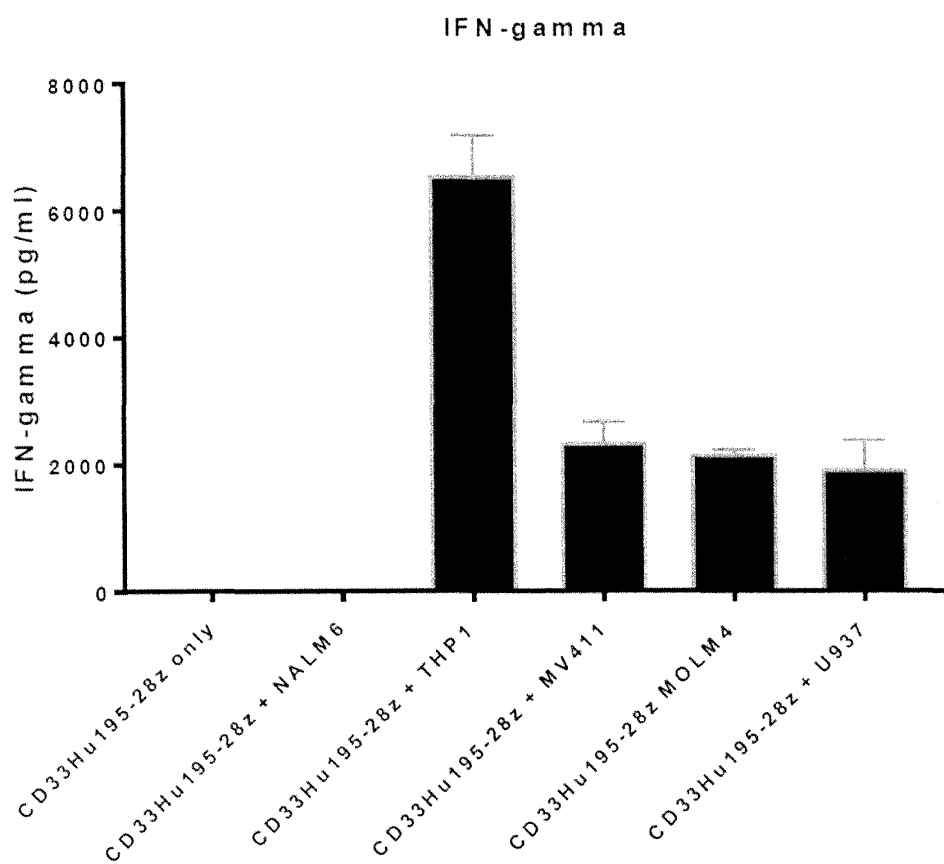


Figure 8



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Figure 9A



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Figure 9B

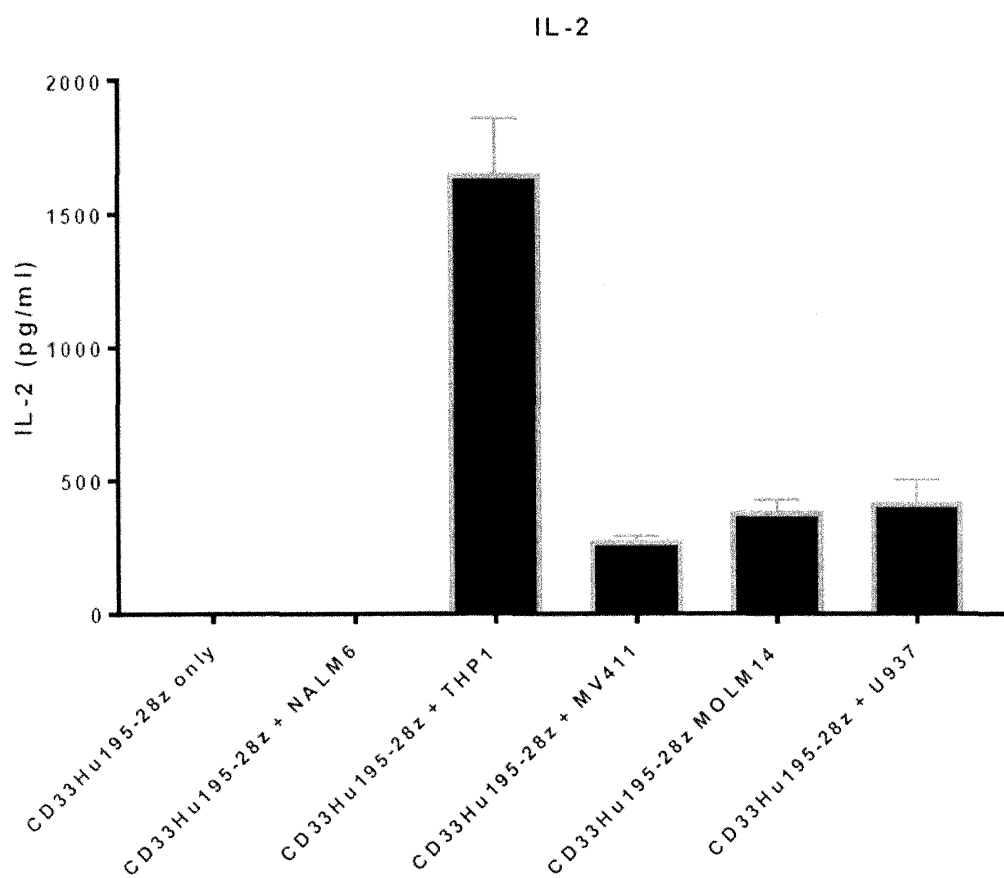
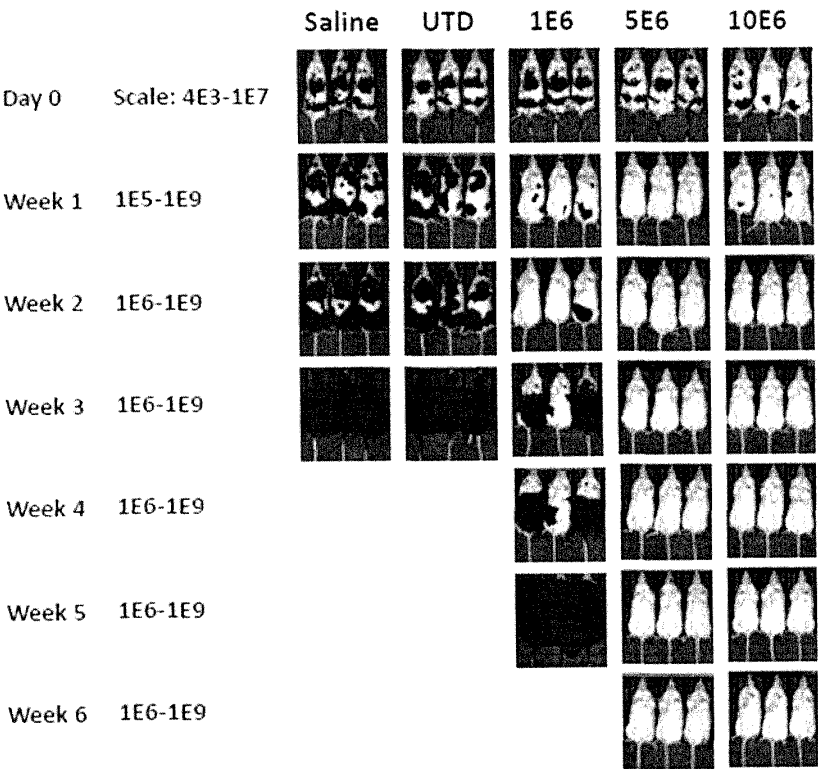


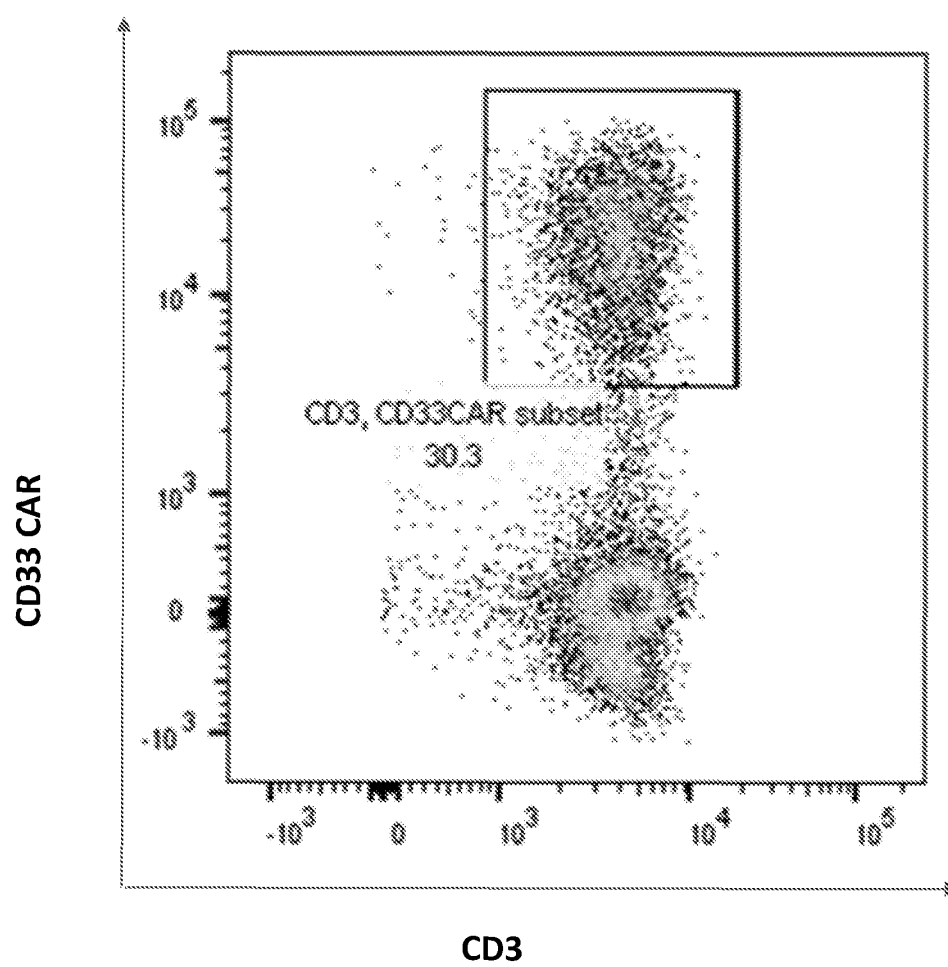
Figure 10

Day -7: 1E6 MOLM14
Day 0: ADT CAR



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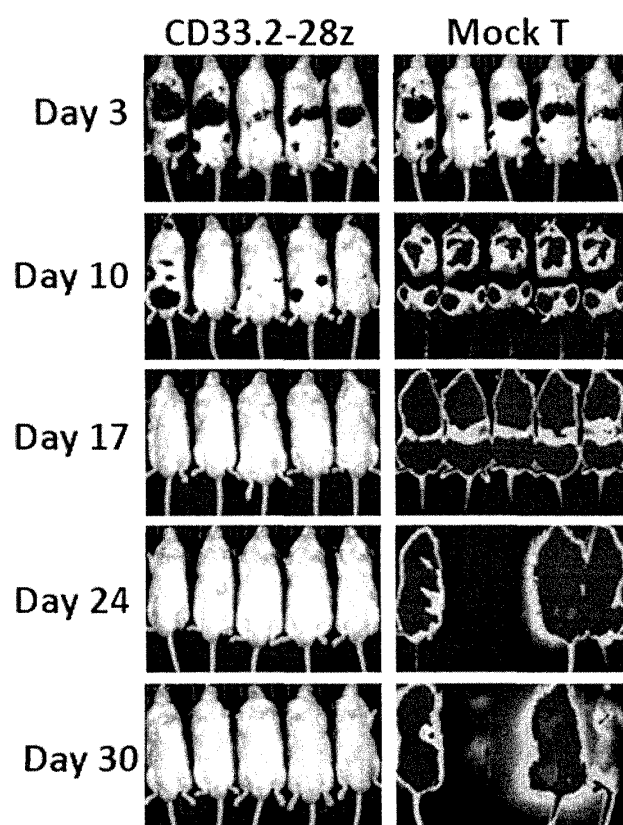
Figure 11A



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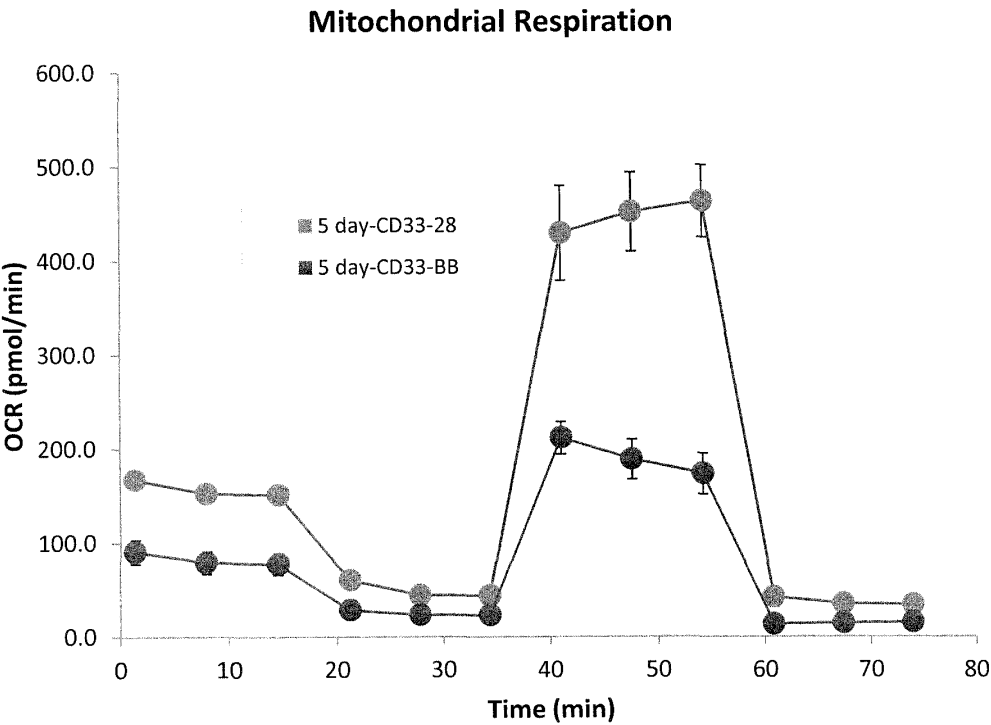
Figure 11B

Day 0: IV 1E6 MOLM14-GL

Day 3: ADT 5E6 CAR⁺ T cell

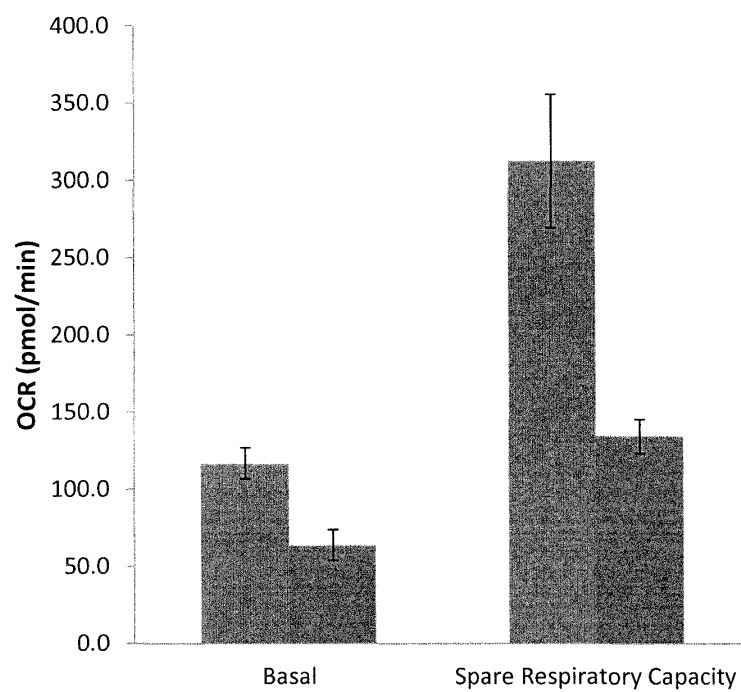
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Figure 12A



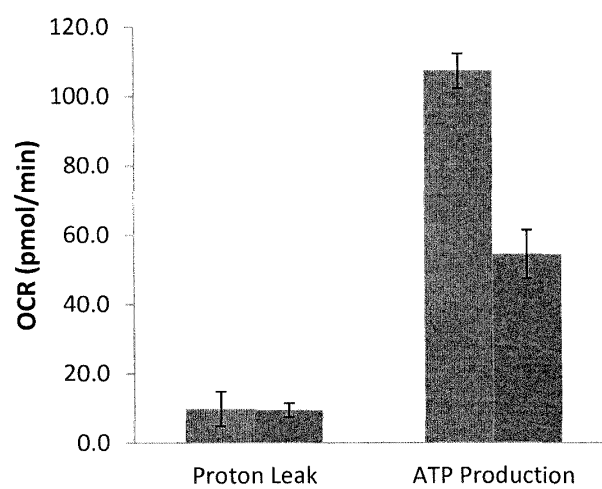
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Figure 12B



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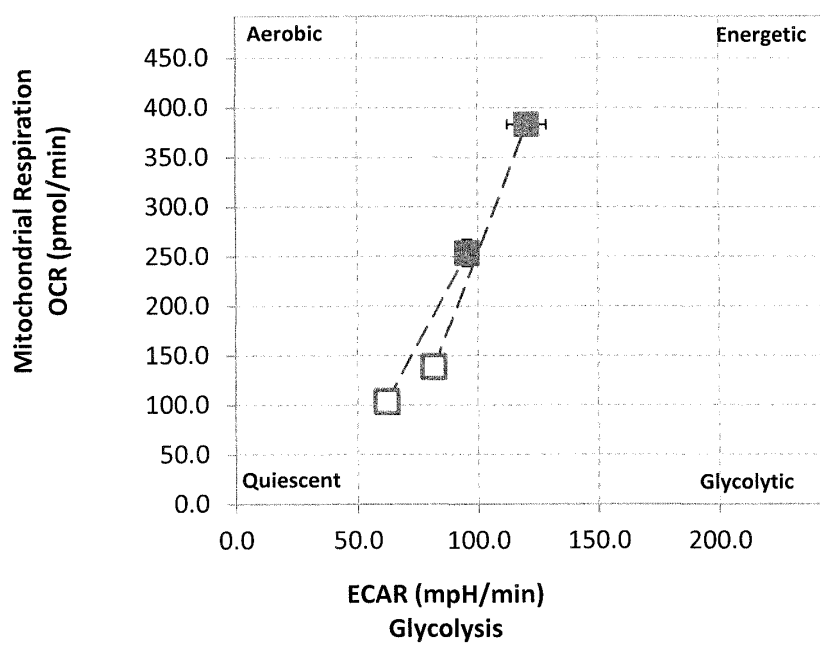
Figure 12C



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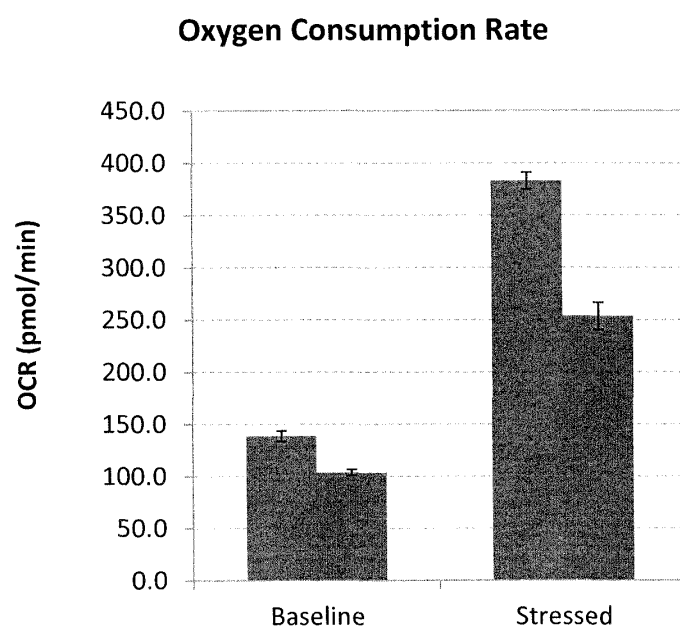
Figure 12D

XF Cell Energy Phenotype



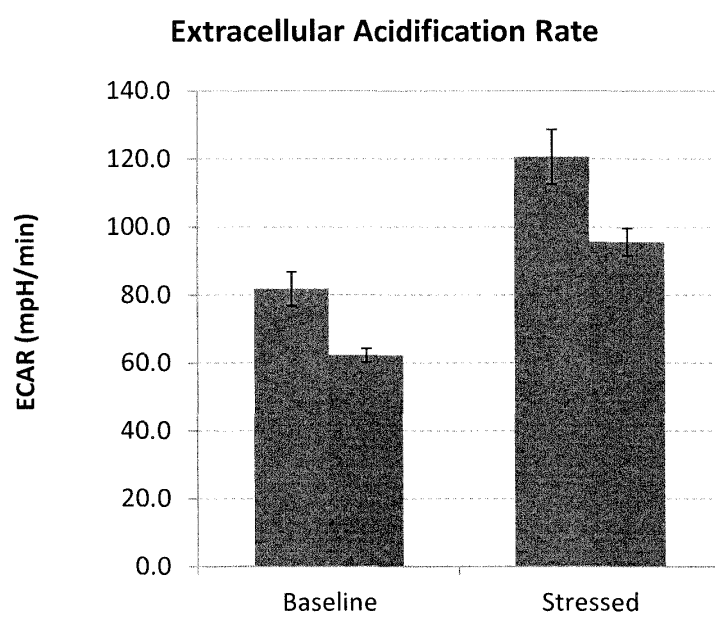
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Figure 12E



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Figure 12F



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Figure 13

Day 0: IV 1E6 NAML6-GL or MOLM14-GL

Day 3: ADT 3.5E6 CAR⁺ T cell