

CAR-T new product development programs are being designed for pre-clinical and future clinical applications.

CAR-T cells can be used for:

1. Compound screening
2. Antibody screening
3. Co-stimulatory and activation domain comparison
4. Personalized medicine and donor variations for CAR-T screening
5. Checkpoint inhibitors
6. Safety switches and regulators of CAR-T functions
7. Pre-clinical in vivo models
8. Treg and T memory cells in CAR-T setting
9. CAR-T signaling, tumor microenvironment
10. Proof of concept studies for clinical trials

The structure of CAR

BCMA protein is often overexpressed in multiple myeloma.

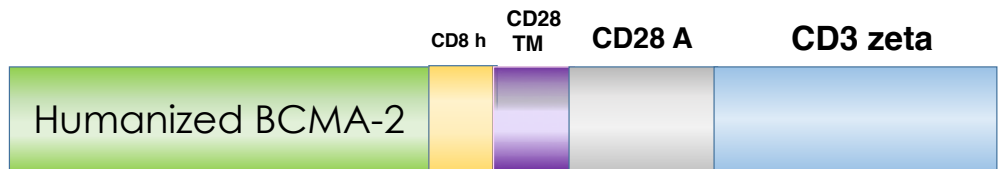


Figure 1. CAR-T cells expressing the above constructs are available targeting BCMA antigen. Humanized BCMA-2-CAR had CD28 co-activation domain.

To date we generated 2nd generation CAR and CAR controls as shown in Figure 1, CAR-T cells and CAR-Natural Killer (NK) effector cells against cancer target cells that show excellent functionality, including dose-dependent and target cell-specific cytotoxic activity.

These CAR-T cells can be tested with target cells in cytotoxic assays and used for testing modulators of immune checkpoint inhibitors (PD-1, CTLA-4 pathways) or activators of immune response, small molecules affecting T cell or T reg activity.

Products and Services

- Mouse Monoclonal Antibody
- Rat Monoclonal Antibody
- Human Antibody
- Hybridoma Sequencing
- Polyclonal Antibody

AMS.PM-CAR1033-1M HUMANIZED BCMA-2-TM28-CD28-CD3 ZETA

Ready-to-use-CAR-T cells

Data

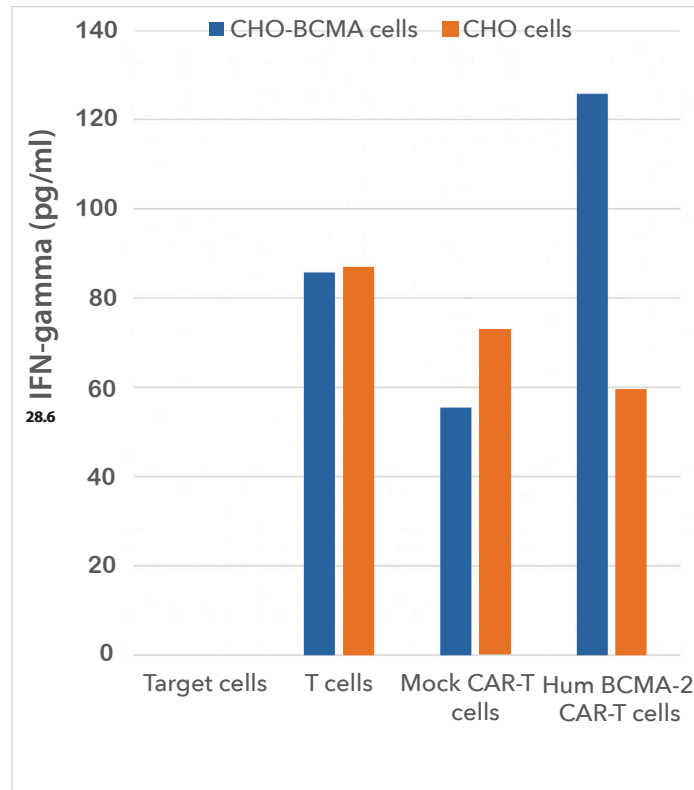


Figure 2. IFN-gamma secretion by Humanized BCMA-2-CAR-T cells in CHO-BCMA and CHO cells.

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