

PM-CAR1042-1M HUMANIZED CD19-1-TM28-CD28-CD3 ZETA PMC-221

Ready-to use-CAR-T cells



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 from Promab

CD19-1 protein overexpressed in many hematological cancers. CD19-1 CAR-T vells can be used to target CD19-1 positive cancers.

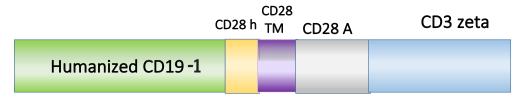


Figure 1. CAR-T cells expressing the above constructs are available from Promab targeting CD19-1 antigen. ScFv, single chain variable fragment. These CAR-T cells are generated with CD19-1 CD28-CD3 zeta CAR construct.

To date Promab 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.

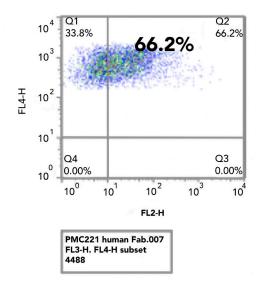




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Human FAB Ab

Figure 2. FACS with human FAB Ab detects humanized CD19-1 ScFv

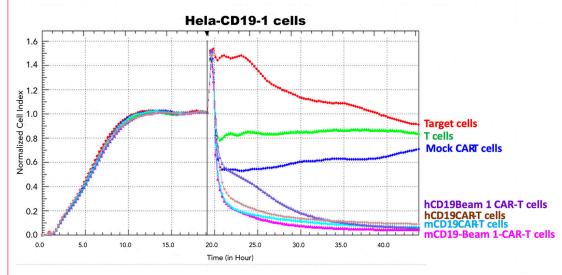


Figure 3. Humanized CD19-1 CAR-T cells express same cytotoxicity as mouse CD19-1 CAR-T cells against Hela-CD19-1 cells

