

ENGINEERED IMMUNE CELL TARGETING BCMA AND USE THEREOF

ABSTRACT OF THE DISCLOSURE

The present invention provides an engineered immune cell targeting BCMA and use thereof. In particular, the present invention provides a CAR specifically targeting BCMA, the CAR comprising an antigen-binding domain which is an S-derived scFv, an antibody heavy chain variable region as shown in SEQ ID NO: 9 and an antibody light chain variable region as shown in SEQ ID NO: 10. The present invention also provides a CAR-T cell comprising the CAR, a double CAR- and CAR-T cell comprising the S-derived scFv, and related use thereof. Compared to CAR-T cells constructed using other scFvs, the constructed CAR-T cell of the present invention has a better killing effect and tumor elimination capability.

[No Suitable Figure]