ANTIGEN-BINDING POLYPEPTIDE TARGETING B7H3 AND APPLICATION THEREOF

ABSTRACT

The present application relates to an antigen-binding polypeptide that specifically binds to B7H3, comprising at least one complementarity-determining region (CDR) of an antibody heavy chain variable region (VH), wherein the VH comprises an amino acid sequence set forth in SEQ ID NO: 25. The present application further relates to a chimeric antigen receptor comprising the antigen-binding polypeptide and a universal CAR-T cell comprising the chimeric antigen receptor. The CAR-T cell recognizes a surface antigen of a tumor cell and knocks out TCR and HLA-A genes expressed by the cell at the same time, so that the immune rejection caused by an allogeneic CAR-T therapy is reduced, the survival time of the cell is prolonged, and the anti-tumor effect is improved.

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