

Abstract

The present invention provides a bispecific chimeric antigen receptor targeting BCMA-CD19 and an application thereof. The bispecific chimeric antigen receptor comprises an extracellular antigen recognition domain; the extracellular antigen recognition domain comprises an anti-BCMA extracellular antigen recognition domain and an anti-CD19 extracellular antigen recognition domain; the anti-BCMA extracellular antigen recognition domain comprises BCMA VH and BCMA VL, wherein amino acid sequences of BCMA VH complementarity-determining regions CDR1, CDR2 and CDR3 respectively comprise amino acid sequences as represented by SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3, and amino acid sequences of BCMA VL complementarity-determining regions CDR1, CDR2 and CDR3 comprise amino acid sequences as represented by SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 6.

(Figure 1)