

Present invention relates to single-domain antibody (sdAb) directed against B-cell maturation antigen (BCMA), comprising regions that determine complementarity (CDR) 1, CDR2, and CDR3, where CDR1 contains SEQ ID NO: 16, CDR2 contains SEQ ID NO: 27, and CDR3 contains SEQ ID NO: 38. Invention also relates to chimeric antigen receptor (CAR) comprising: (a) extracellular antigen-binding domain containing such anti-BCMA sdAb; (b) transmembrane domain; and (c) intracellular signaling domain.