

Open Peer Review on Qeios

Anti-BCMA Antibody SEA-BCMA

National Cancer Institute

Source

National Cancer Institute. <u>Anti-BCMA Antibody SEA-BCMA</u>. NCI Thesaurus. Code C148176.

A humanized, afucosylated monoclonal antibody created using the proprietary, sugar-engineered antibody (SEA) platform and directed against the tumor-associated antigen (TAA) human B-cell maturation antigen (BCMA; TNFRSF17), with potential immunoadjuvant activity. Upon administration, the anti-BCMA antibody SEA-BCMA targets and binds to BCMA expressed on tumor cells. When administered with antibody-coupled T-cell receptor (ACTR)-expressing T-cells, the ACTR-expressing T-cells bind, with high affinity, to the anti-BCMA antibody SEA-BCMA. This activates the ACTR T-cells and the T-cells induce specific cytotoxic T-lymphocyte (CTL)-mediated cytotoxicity toward BCMA-expressing tumor cells. BCMA, a cell surface protein and member of the tumor necrosis factor (TNF) receptor superfamily that is specifically overexpressed on malignant plasma cells, plays a key role in promoting plasma cell survival.

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