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Anti-BCMA/CD3 BiTE Antibody REGN5458

National Cancer Institute

Source

National Cancer Institute. *Anti-BCMA/CD3 BiTE Antibody REGN5458*. NCI Thesaurus. Code C158504.

A human bispecific T-cell engager (BiTE) antibody composed of two single-chain variable fragments (scFvs): one directed against the tumor-associated antigen (TAA) human B-cell maturation antigen (BCMA; tumor necrosis factor receptor superfamily member 17; TNFRSF17) and another directed against the CD3 antigen expressed on T-lymphocytes, with potential immunostimulating and antineoplastic activities. Upon administration, anti-BCMA/anti-CD3 BiTE REGN5458 binds to both CD3 on cytotoxic T-lymphocytes (CTLs) and BCMA on BCMA-expressing tumor cells. This activates and redirects CTLs to BCMA-expressing tumor cells, leading to CTL-mediated killing of BCMA-expressing tumor cells. BCMA, a member of the tumor necrosis factor receptor superfamily that is specifically overexpressed on malignant plasma cells, plays a key role in promoting plasma cell survival.