Anti-MUC16/CD3 BiTE Antibody REGN4018

National Cancer Institute

Source

National Cancer Institute. Anti-MUC16/CD3 BiTE Antibody REGN4018. NCI Thesaurus. Code C153129.

A human bispecific T-cell engager (BiTE) antibody composed of two single-chain variable fragments (scFv), one directed against the tumor-associated antigen (TAA) human mucin 16 (MUC16; cancer antigen 125; CA125; FLJ14303), and one directed against human CD3, a T-cell surface antigen found on T-lymphocytes, with potential antineoplastic activity. Upon administration, anti-MUC16/CD3 BiTE antibody REGN4018 binds to both CD3 on T-cells and MUC16 expressed on tumor cells. This results in the cross-linking of T-cells and tumor cells, and induces a potent cytotoxic T-lymphocyte (CTL) response against MUC16-expressing tumor cells. MUC16, a member of the mucin family of glycoproteins, is overexpressed in a variety of tumor cells and plays a key role in tumor cell proliferation.