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Anti-CD3/Anti-BCMA Bispecific Monoclonal Antibody JNJ-64007957

National Cancer Institute

Source

National Cancer Institute. *Anti-CD3/Anti-BCMA Bispecific Monoclonal Antibody JNJ-64007957*. NCI Thesaurus. Code C136823.

A bispecific humanized monoclonal antibody against human CD3, a T-cell surface antigen, and human B-cell maturation antigen (BCMA; TNFRSF17), a tumor-associated antigen (TAA) expressed on plasma cells, with potential antineoplastic activity. Upon administration, anti-CD3/anti-BCMA bispecific monoclonal antibody JNJ-64007957 binds to both CD3 on T-cells and BCMA expressed on malignant plasma cells. This results in the cross-linking of T-cells and tumor cells, and induces a potent cytotoxic T-lymphocyte (CTL) response against BCMA-expressing plasma 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.