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Anti-CD20/CD3 Monoclonal Antibody XmAb13676

National Cancer Institute

Source

National Cancer Institute. *Anti-CD20/CD3 Monoclonal Antibody XmAb13676*. NCI Thesaurus. Code C130050.

A bispecific, Fc domain-containing, monoclonal antibody with potential antineoplastic activity. Anti-CD20/CD3 monoclonal antibody XmAb13676 contains two antigen-recognition sites: one for human CD3, a T cell surface antigen, and one for human CD20, a tumor-associated antigen (TAA) that is exclusively expressed on B-cells during most stages of B-cell development and is often overexpressed in B-cell malignancies. Upon administration, XmAb13676 binds to both T-cells and CD20-expressing B-lineage tumor cells. The resulting cross-linkage may trigger a potent cytotoxic T-lymphocyte (CTL) response against the CD20-expressing tumor B-cells. Inclusion of an Fc domain on the antibody prolongs the half-life of the bispecific antibody and enhances T-cell-mediated tumor cell killing because the agent is able to bind to Fc receptors.