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Anti-CD33/CD3 Bispecific Antibody JNJ-67571244

National Cancer Institute

Source

National Cancer Institute. <u>Anti-CD33/CD3 Bispecific Antibody JNJ-67571244</u>. NCI Thesaurus. Code C162296.

A bispecific antibody possessing two antigen-recognition and binding sites, one for the CD3 complex, a group of T-cell surface glycoproteins that complex with the T-cell receptor (TCR), and one for the tumor-associated antigen (TAA) CD33, with potential immunostimulating and antineoplastic activities. Upon intravenous administration, anti-CD33/CD3 bispecific antibody JNJ-67571244 binds to both the CD3 antigen on cytotoxic T-lymphocytes (CTLs) and the CD33 antigen expressed on certain tumor cells, thereby crosslinking tumor cells and CTLs. This activates and redirects CTLs to CD33-expressing tumor cells, which results in CTL-mediated killing of CD33-expressing tumor cells. CD33, a myeloid differentiation antigen, is expressed on normal non-pluripotent hematopoietic stem and progenitor cells (HSPCs) and is overexpressed on a variety of cancer cell types, including acute myeloid leukemia (AML). It plays a key role in tumor initiation, proliferation and progression.

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