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Anti-CD40 Agonist Monoclonal Antibody CDX-1140

National Cancer Institute

Source

National Cancer Institute. *Anti-CD40 Agonist Monoclonal Antibody CDX-1140*. NCI Thesaurus. Code C150558.

A fully human immunoglobulin G2 (IgG2) agonistic monoclonal antibody targeting the B-cell surface antigen CD40, with potential immunostimulatory and antineoplastic activities. Upon administration, CDX-1140 targets and binds to CD40 on a variety of immune cell types. This induces CD40-dependent signaling pathways, triggers the proliferation and activation of antigen-presenting cells (APCs) and activates T-cells. This results in an enhanced cytotoxic T-lymphocyte (CTL)-mediated immune response against tumor cells. CD40, a cell surface receptor and member of the tumor necrosis factor receptor superfamily (TNFRSF), is expressed on various immune cells, such as dendritic cells (DCs), macrophages and B-cells, and plays a key role in the activation of the immune system.