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Anti-GITR Agonistic Monoclonal Antibody BMS-986156

National Cancer Institute

Source

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An anti-human glucocorticoid-induced tumor necrosis factor receptor (GITR; tumor necrosis factor superfamily member 18; TNFRSF18; CD357) agonistic monoclonal antibody, with potential immune checkpoint modulating activity. Anti-GITR antibody BMS-986156 binds to and activates GITR, which is expressed on the cell surface of multiple types of T-cells. This stimulates the immune system, induces both the activation and proliferation of tumor antigen-specific T-effector cells (T effs), and suppresses the function of activated T-regulatory cells (T regs). This leads to tumor cell eradication. GITR, a member of the TNF receptor superfamily and T-cell receptor co-stimulator, is expressed on the surface of multiple immune cell types, including T regs, T effs, B-cells, and natural killer (NK) cells. Inappropriately activated T regs suppress both T effs and T-cell receptor (TCR) signaling.