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Anti-GITR Agonistic Monoclonal Antibody ASP1951

National Cancer Institute

Source

National Cancer Institute. *Anti-GITR Agonistic Monoclonal Antibody ASP1951*. NCI Thesaurus. Code C159411.

A human, high-affinity, tetravalent monospecific agonistic monoclonal antibody targeting glucocorticoid-induced tumor necrosis factor receptor (GITR; tumor necrosis factor superfamily member 18; TNFRSF18; CD357), with potential immune checkpoint modulating activity. Upon administration, anti-GITR agonistic monoclonal antibody ASP1951 binds to and activates GITR, which is expressed on the cell surface of multiple types of T-lymphocytes. This 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), which may promote the elimination of tumor cells. 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.