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Anti-LAG-3 Monoclonal Antibody LAG525

National Cancer Institute

Source

National Cancer Institute. *Anti-LAG-3 Monoclonal Antibody LAG525*. NCI Thesaurus. Code C122683.

A humanized monoclonal antibody directed against the inhibitory receptor lymphocyte activation gene-3 (LAG-3), with potential immunomodulating and antineoplastic activities. Upon administration, the anti-LAG-3 monoclonal antibody LAG525 binds to LAG-3 expressed on tumor-infiltrating lymphocytes (TILs) and blocks its binding with major histocompatibility complex (MHC) class II molecules expressed on tumor cells. This activates antigen-specific T-lymphocytes and enhances cytotoxic T-cell-mediated tumor cell lysis, which leads to a reduction in tumor growth. LAG-3, a member of the immunoglobulin superfamily (IgSF) and expressed on various immune cells, negatively regulates cellular proliferation and activation of T-cells. Its expression on TILs is associated with tumor-mediated immune suppression.