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## Anti-LAG3 Monoclonal Antibody MK-4280

National Cancer Institute

## Source

National Cancer Institute. <u>Anti-LAG3 Monoclonal Antibody MK-4280</u>. NCI Thesaurus. Code C142077.

A humanized, immunoglobulin G4 (IgG4) monoclonal antibody (MAb) directed against the inhibitory receptor lymphocyte activation gene-3 protein (LAG3), with potential immune checkpoint inhibitory and antineoplastic activities. Upon administration, the anti-LAG3 monoclonal antibody MK-4280 binds to LAG3 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. LAG3, a member of the immunoglobulin superfamily (IgSF), is expressed on various immune cells, and negatively regulates both proliferation and activation of T-cells. Its expression on TILs is associated with tumor-mediated immune suppression.

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