## **Open Peer Review on Qeios**

## Anti-PD-L1 Monoclonal Antibody ZKAB001

National Cancer Institute

## Source

*National Cancer Institute. <u>Anti-PD-L1 Monoclonal Antibody ZKAB001</u>. NCI Thesaurus. Code C162504.* 

A human monoclonal antibody directed against the immunosuppressive ligand programmed cell death-1 ligand 1 (PD-L1; cluster of differentiation 274; CD274), with potential immune checkpoint inhibitory and antineoplastic activities. Upon intravenous administration, anti-PD-L1 monoclonal antibody ZKAB001 specifically targets and binds to PD-L1, blocking its binding to and activation of its receptor programmed cell death 1 (PD-1; cluster of differentiation 279; CD279). This reverses T-cell inactivation caused by PD-1/PD-L1 signaling and enhances the cytotoxic T-lymphocyte (CTL)-mediated antitumor immune response against PD-L1-expressing tumor cells. PD-L1 is overexpressed by many human cancer cell types. PD-L1 binding to PD-1 on T-cells suppresses the immune system and results in immune evasion. PD-1, a transmembrane protein belonging to the immunoglobulin superfamily (IgSF) expressed on activated T-cells, is a negative regulator of the immune system that limits the expansion and survival of CD8positive T-cells.