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Anti-PD-1 Monoclonal Antibody BI 754091

National Cancer Institute

Source

National Cancer Institute. *Anti-PD-1 Monoclonal Antibody BI 754091*. NCI Thesaurus. Code C132252.

A monoclonal antibody directed against the negative immunoregulatory human cell surface receptor programmed cell death protein 1 (PD-1; PDCD1), with immune checkpoint inhibitory and antineoplastic activities. Upon administration, BI 754091 selectively binds to and blocks the activation of PD-1, an immunoglobulin (Ig) superfamily transmembrane protein, by its ligands programmed cell death ligand 1 (PD-L1), which is overexpressed on certain cancer cells, and programmed cell death ligand 2 (PD-L2), which is primarily expressed on antigen-presenting cells (APCs). This results in the activation of T-cells and T-cell-mediated immune responses against tumor cells. Activated PD-1 negatively regulates T-cell activation and plays a key role in tumor evasion from host immunity.