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Autologous Dendritic Cell-Autologous Tumor mRNA-Human CD40L Vaccine

National Cancer Institute

Source

National Cancer Institute. *Autologous Dendritic Cell-Autologous Tumor mRNA-Human CD40L Vaccine*. NCI Thesaurus. Code C61077.

A cancer vaccine consisting of autologous dendritic cells transfected with autologous tumor mRNA and the human CD40 ligand (CD40L) gene with immunostimulatory and antitumor activities. Vaccination with autologous dendritic cell-autologous tumor mRNA-human CD40L vaccine may elicit a cytotoxic T cell response against tumor cells from which the autologous tumor mRNA was derived. When expressed by dendritic cells, tumor antigens and the co-stimulatory molecule CD40L, which binds to CD40 receptors on antigen presenting cells (APC), facilitate both humoral and cellular immune responses against tumor cells.