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Autologous Anti-Claudin18.2-transduced T Lymphocytes

National Cancer Institute

Source

National Cancer Institute. *Autologous Anti-Claudin18.2-transduced T Lymphocytes*. NCI Thesaurus. Code C150382.

A preparation of autologous T-lymphocytes ex vivo transduced with a lentiviral vector encoding for a chimeric antigen receptor (CAR) specific for the tumor-associated antigen (TAA) Claudin18.2 (CLDN18.2; A2 isoform of claudin-18), with potential immunostimulating and antineoplastic activities. Upon administration, the autologous anti-CLDN18.2CAR-transduced T lymphocytes specifically recognize and induce selective toxicity in CLDN18.2-expressing tumor cells. CLDN18.2, a tight junction protein, is expressed on a variety of tumor cells, but its expression in healthy tissues is strictly confined to short-lived differentiated epithelial cells of the gastric mucosa.