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Anti-GPC3-CAR Autologous T Lymphocytes

National Cancer Institute

Source

National Cancer Institute. *Anti-GPC3-CAR Autologous T Lymphocytes*. NCI Thesaurus. Code C121638.

A preparation of autologous T-lymphocytes that have been genetically modified to express a chimeric antigen receptor (CAR) specific for glypican-3 (GPC3), with potential immunostimulating and antineoplastic activities. Upon administration, anti-GPC3-CAR autologous T-lymphocytes specifically target and bind to GPC3-expressing tumor cells, resulting in tumor cell lysis. GPC3, a heparan sulfate proteoglycan and a member of the glypican family, is overexpressed on certain tumor cell types while minimally expressed in normal, healthy cells; GPC3 plays an important role in cellular proliferation and differentiation.