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Tumor Antigen-reactive CD28+/CCR7+/CD27+/CD45RA- Cytotoxic T-lymphocyte

National Cancer Institute

Source

National Cancer Institute. *Tumor Antigen-reactive CD28+/CCR7+/CD27+/CD45RA- Cytotoxic T-lymphocyte*. NCI Thesaurus. Code C118848.

A subset of rapidly expanding, tumor antigen-reactive central memory cytotoxic T-lymphocytes (CTLs) with a broad expression profile for markers of immune function (MIF), and a particular phenotype of CD28+/CCR7+/CD27+/CD45RA-. These CTLs are formed in vivo following administration of AGS-003 (an autologous, CD40L and tumor antigen RNA-transfected dendritic cell (DC) immunotherapeutic agent), secrete multiple cytokines, including interferon-gamma (IFN- γ), tumor necrosis factor-alpha (TNF- α), and interleukin-2 (IL-2), and cause cell lysis. These antigen-reactive, CD28+/CCR7+/CD27+/CD45RA- CTLs, and the phenotype changes in the patient's peripheral blood CTL pool, can be used as a marker to evaluate a patient's immune response against the administered immunotherapeutic agent AGS-003.