

[Open Peer Review on Qeios](#)

# Partially HLA-matched Adenovirus-specific T Lymphocytes

National Cancer Institute

## Source

National Cancer Institute. *Partially HLA-matched Adenovirus-specific T Lymphocytes*.  
NCI Thesaurus. Code C148419.

A population of frozen, off-the-shelf, ready to administer, allogeneic, partially or closely human leukocyte antigen (HLA) matched cytotoxic T-lymphocytes (CTLs) specifically reactive to human adenovirus (Ad; AdV), with potential immunomodulating and anti-adenoviral activities. Ex vivo, Ad-derived peptides were mixed with peripheral blood mononuclear cells (PBMCs) from healthy donors and the Ad-reactive CTLs were selected, grown and frozen. Upon thawing and infusion, the partially HLA-matched Ad-specific CTLs may help reconstitute Ad-specific CTL responses in patients at risk of developing Ad infections after allogeneic stem cell transplant (HSCT) or in Ad-infected immunocompromised hosts. This may induce killing of Ad-infected cells and may prevent or reduce severity of Ad infection.