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## Anti-p53 T-Cell Receptor-Transduced Peripheral Blood Lymphocytes

National Cancer Institute

## Source

National Cancer Institute. <u>Anti-p53 T-Cell Receptor-Transduced Peripheral Blood</u>
<u>Lymphocytes</u>. NCI Thesaurus. Code C64773.

Human autologous peripheral blood lymphocytes (PBLs) transduced with an anti-p53 T cell receptor gene with potential antineoplastic activity. PBLs are harvested from a patient and pulsed with a retroviral vector that encodes the T-cell receptor gene specific for a mutated form of p53. The transduced PBLs are then expanded in culture. When reintroduced to the patient, these modified PBLs express the anti-p53 T cell receptor which binds to mutant p53-overexpressing tumor cells; PBL-mediated tumor growth inhibition may follow. Many tumor cell types overexpress mutant p53 proteins, which are associated with the loss of apoptosis regulation and abnormal cell proliferation.

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