

Creative Biolabs Provides Custom $\gamma\delta$ T Cells Services to Support Cancer Therapy

New York, New York City, Sep 15, 2021 ([Issuewire.com](https://www.issuewire.com)) - *Since the discovery of gamma delta T cells ($\gamma\delta$ T cells), this rare and unique component of the immune system has been recognized for its potential in cancer immunotherapy. Creative Biolabs is a biotechnology company that has developed an advanced platform to help clients advance their T cell immunotherapy research by providing high-quality $\gamma\delta$ T cell and a series of tailored $\gamma\delta$ T cell-based drug development and discovery services.*

Immunotherapies based on T cells are becoming a huge trend in the treatment of cancer, especially CAR-T cells. These genetically modified T cells have shown remarkable remission rates in patients that did not respond to standard treatments. Among the solutions emerging, a rare type of T cell called gamma delta T cells ($\gamma\delta$ T cells) has attracted a great deal of attention because of their important role in fighting cancer. Besides, a published study revealed that the amount of $\gamma\delta$ T cells that infiltrate a tumor was the best predictor of a favorable outcome for the patient.

Given the ability and benefits of $\gamma\delta$ T cell, Creative Biolabs has focused on exploring [\$\gamma\delta\$ T cell technology](#) to speed up the discovery and development of novel cancer immunotherapies. The services provided by Creative Biolabs include $\gamma\delta$ T cell isolation, activation and expansion, characterization, production, cytotoxicity test, and migration assay, aiming to help explore more possible targeted drugs and help scientists develop solutions for cancer.

※ [?? T Cell Activation and Expansion](#)

Immunotherapy with $\gamma\delta$ T cells requires their activation and expansion as they comprise only a small percentage of circulating T cells. Appropriate optimization of human T cell activation and expansion protocols can improve the efficiency of genetic modification and overall cell yield. Some of the most commonly studied $\gamma\delta$ T cells include V γ 9V δ 2 T cells and non-V γ 9V δ 2 T cells, as they can be activated and expanded *in vitro* and *in vivo*, thus make it possible to developing $\gamma\delta$ T cell-based immunotherapy.

※ [?? T Cell Characterization](#)

$\gamma\delta$ T cells represent an evolutionarily primitive T cell subset characterized by distinct T cell receptors (TCRs) and innate and adaptive immune functions. The phenotypical and functional characterization of $\gamma\delta$ T cells can help researchers understand intrinsic factors involved in cellular proliferation, function, and overall processes, and further advance the development of immunotherapy.

※ [?? T Cell Cytotoxicity Analysis](#)

Cytotoxicity is the main biological effect of $\gamma\delta$ T cells and the main way for them to exert anti-tumor effects. "Due to the important function of $\gamma\delta$ T cell in several diseases, it is necessary to develop suitable pre-clinical assays for $\gamma\delta$ T cell activity and cytotoxicity," said a scientist at Creative Biolabs.

About Creative Biolabs

Equipped with deep knowledge and experience in $\gamma\delta$ T cell design and production, Creative Biolabs can

offer high-quality custom $\gamma\delta$ T cell solutions for valued clients. Driven by science and a passion for quality, Creative Biolabs is committed to providing comprehensive, low-cost T cells support to meet the needs of customers.

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