

## SOLUTION BRIEF

# From endpoint limits to dynamic insights with a next-gen T cell assay

## Real-time, label-free data that traditional assays miss

Immunotherapy R&D relies on understanding how T cells behave, but traditional assays fall short because they:

- Depend on endpoint measurements
- Use fluorescent labels that adversely affect viability and disrupt cell behavior
- Require manual, user-biased analysis

**Nanolive's LIVE T Cell Assay changes the game** as the only solution that enables **continuous, label-free functional profiling** of T cells in co-cultures without staining, manual work, or model training. Built for both **solid and liquid tumor models**, it captures and quantifies unperturbed, live cell dynamics with **automated, multiparametric analysis**, empowering faster, more confident decision-making.



Figure 1. Redefining immune cell profiling with Nanolive's label-free imaging and the LIVE T Cell Assay

## A complete solution: from sample to functional insights

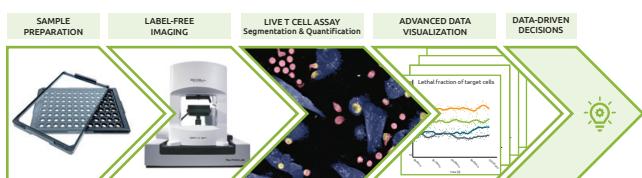


Figure 2. Nanolive's streamlined workflow for immunotherapy analysis

Nanolive's turnkey immunotherapy solution is built for ease of use and reproducibility, with a fully automated workflow:

- **Capture** high-resolution, label-free co-culture images continuously
- **Analyze** with the automated LIVE T Cell Assay, no manual intervention required
- **Visualize** quantified data with time-lapse clarity

All without compromising cellular integrity.

## DISCOVER HOW NANOLIVE CAN TRANSFORM YOUR T CELL WORKFLOWS.

Questions?  
Want to see the assay in action?  
Let us know!



Scan or click me!

## Automated functional profiling of T cells and their targets

Monitor key events, in real-time:

- **T cell activation & viability**
- **T cell-target interactions**
- **Target cell killing**

The LIVE T Cell Assay uses AI to analyze raw, label-free images to generate **digital overlays** for quantification of the immune response. With **70+ metrics** at your fingertips, get comprehensive **high-content phenotyping and functional data** automatically.

Suitable for measuring specificity, efficacy, MoA and more across immunotherapies, including CAR-T and bispecifics.

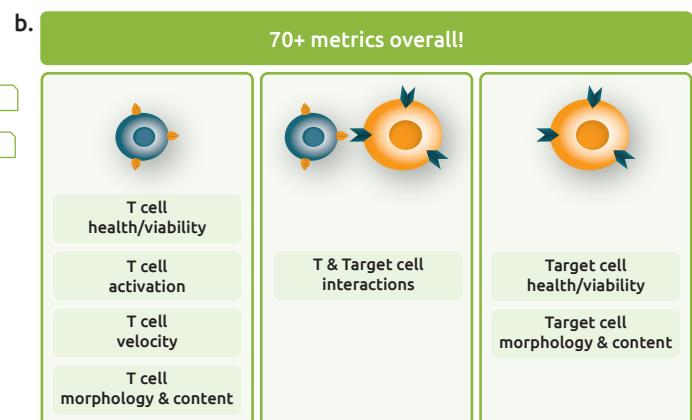
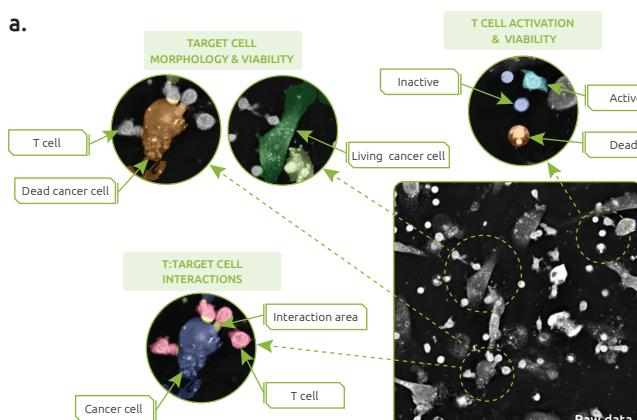


Figure 3. Visual and quantitative outputs of the LIVE T Cell Assay a. Raw label-free image of a T cell-target cell co-culture and digital overlays, powered by the LIVE T Cell Assay, highlighting target cell morphology and viability, T cell activation and viability and T cell-target cell interactions. b. Example of metrics extracted from the LIVE T Cell Assay.

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