) / RoukenBio

Assess your candidate immunotherapeutics with our *in vitro* Treg suppression assays

Our defined and robust *in vitro* Treg assays aim to test candidate immunotherapies for their ability to modulate Treg phenotype and importantly, functional activity. Our assay formats are **adaptable**, using **natural Tregs** isolated from PBMCs, or **induced Tregs** expanded and differentiated from naïve CD4+ T cells. Our **expert immunologists** work closely with you to design the most appropriate system to achieve your goals.

A Treg suppression assay in action



Treg purity and proliferation results from multiple donors. Tregs were isolated from thawed, cryopreserved PBMCs and expanded *in vitro* for 21 days.

Purity was assessed by flow cytometry staining for CD4, CD25 and FoxP3. Treg purity was consistently above 85% (A).

Tregs were then cultured with autologous PBMCs and stimulated with anti-CD3 for 5 days. Tregs were titred into the co-culture at varying ratios of nTreg:PBMC.

Example histograms showing proliferation of CD4 and CD8 T cells (B & C) and derived suppression frequencies for three different PBMC donors (D & E).

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Why choose the RoukenBio *in vitro* Treg suppression model?



Both natural Treg and inducible Treg formats are available

This allows the selection of the most appropriate cell type for the molecule to be tested and provides different assay scales.



Pre-screened human T cell donors

Cryopreserved PBMCs on-site are obtained from leukapheresis, with large lot sizes from recallable donors. This facilitates a 96-well plate assay with the ability to repeat the assay with the same biological donors.



High content assay readouts

Our Treg assays are performed in 96-well plates, in addition to measuring proliferative T cell responses, the assay can be coupled with multi-parameter flow cytometry and multiplex cytokine readouts to maximise the data that can be generated from each run.

Discover more insights and explore our data and assay setups by accessing our Treg technical presentation.



RoukenBio - The CRO redefined

Backed by our brilliant minds, we have turned the traditional CRO model on its head, by fostering a collaborative and personalised approach. Our mission is simple:

Solve problems. Deliver quality data. Propel your drug discovery breakthroughs.

United by a passion to make sense of complexities and overcome challenges, we apply our specialised knowledge to big-picture thinking. We will explore every option to deliver over and above for your project.

We are thought leaders with a deep understanding of immunology, bioassays, molecular biology and a track record of groundbreaking discoveries and novel cell-based tools.

Contacts

