) / RoukenBio

Characterising effector function with our primary cell based ADCC assays

Our package of standardised antibody dependent cellular cytotoxicity (ADCC) assays aim to overcome the challenges of complex, primary cell based biological assays without compromising on reproducibility and true measurement of ADCC. Our bioassay experts have access to a wide range of cell lines, engineered target cells and primary cells and work collaboratively with you to select the most appropriate assay set up and analysis to achieve your goals.

Our ADCC (PBMC) assay in action for a popular therapeutic target



HER2 expressing target cells were opsonised with trastuzumab and incubated with cryopreserved PBMCs in 384 well assay plates overnight. Target cells constitutively expressed luciferase as a viability marker and true ADCC was determined by the reduction in luciferase signal. Relative potency was determined relative to a reference standard and accuracy of 43 assessments were reported for HER2 (A) with representative unconstrained 4-PL model fits presented (B).

Typical primary effector cell ADCC assays set up at RoukenBio



Why choose RoukenBio's primary cell based ADCC assays?



Selection of target cell formats

The choice of freshly isolated cells, naïve cell lines and engineered target cells allows the most appropriate cell type to be selected for your molecule and provides an ADCC target cell for almost any antigen.



Pre-screened human PBMC donors

Cryopreserved PBMCs are on-site, obtained from leukapheresis, with large lot sizes from FcγR genotyped donors. This allows reservation of a specific lot for your project and provides high reproducibility of results.

High throughput and exceptional performance

Our ADCC assays can be performed in 384-well plates. This allows parallel testing of multiple samples with high replication over up to an 18-point concentration series.

Find out more about our biosimilar services and assay portfolio:



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

