

ADCC-CDC assay

ChemPartner

Dedicated to LifeScience

Model cell
line selection

ADCC/CDC Assay
optimization

Test samples
and report

The data can support:

- Bulk antibody screening and lead Ab selection
- Stable cell line development and cell culture progress development for CMC
- Drug release and IND filling

Key feature's of Chempartner ADCC/CDC assay

- Stable NK92-CD16A cell line as ADCC effect cell to provide repeatable data.
- Target cell labeling technique to insure detection of target cell specific cytotoxicity
- Effective strategy to select model cell lines and optimize ADCC/CDC assay for new target
- Ab engineering technique to enhance ADCC/CDC effect
- Established ADCC format including but not limited to CD20, Her2, EGFR, CD52
- Fc receptor and C1q binding confirming by Biacore or FACS.

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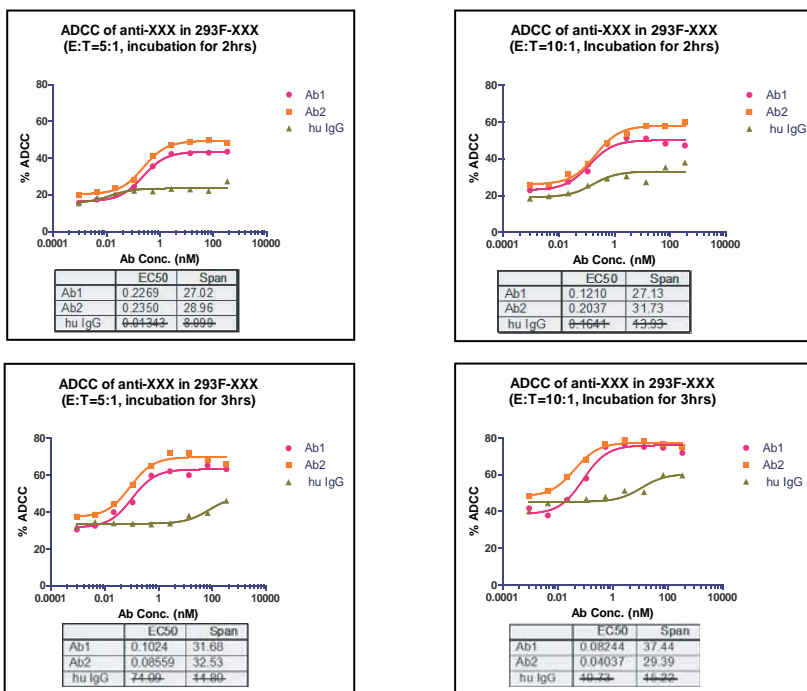
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Case study I: Establish ADCC assay for a new target

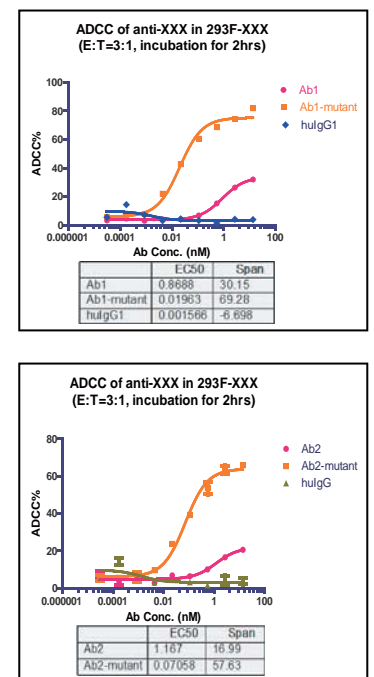
1. Model cell line selection

Cell line	Target protein express level (FACS MFI)	Fc receptor express level (FACS MFI)	Selection priority for ADCC assay
293F-XXX	6,769	32	1
OCI-AML-1	2,620	93	2
SK-MEL-28	1,427	56	2
MV-4-11	3,176	1542	3
HL-60	825	419	3
THP-1	1,213	7226	4

2. Assay optimization: effect to target cell ratio and incubation time



3. Ab engineering to enhance ADCC effect



Case study II: Established ADCC assay

