

TUMOR

IMMUNOLOGY

ChemPartner offers a broad array of *in vitro* assays and *in vivo* models to fast-forward your immuno-oncology drug discovery.

## IMMUNE-MODULATING TARGET

### ANTIBODY APPROACH

Antibody Generation	<ul style="list-style-type: none"> <li>Hybridoma</li> <li>Phage display</li> <li>Hlg transgenic mice</li> </ul>
Lead Identification	<ul style="list-style-type: none"> <li>Binding assays</li> <li>Target specific assays</li> </ul>
Lead Optimization	<ul style="list-style-type: none"> <li>Humanization</li> <li>Affinity maturation</li> </ul>
Lead Characterization	<ul style="list-style-type: none"> <li>MLR and other hPBMC assays</li> <li><i>In vivo</i> efficacy (humanized mouse model, hTg KI mice)</li> </ul>

Surrogate Abs  
Cross-reactive Abs

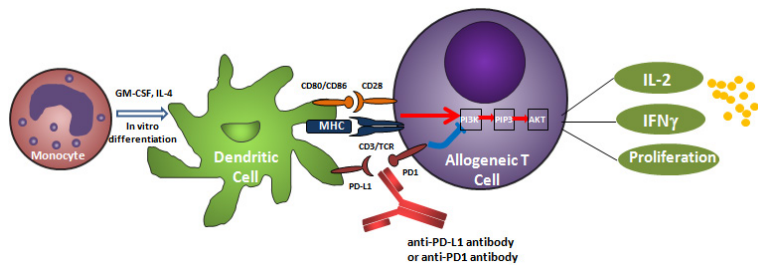
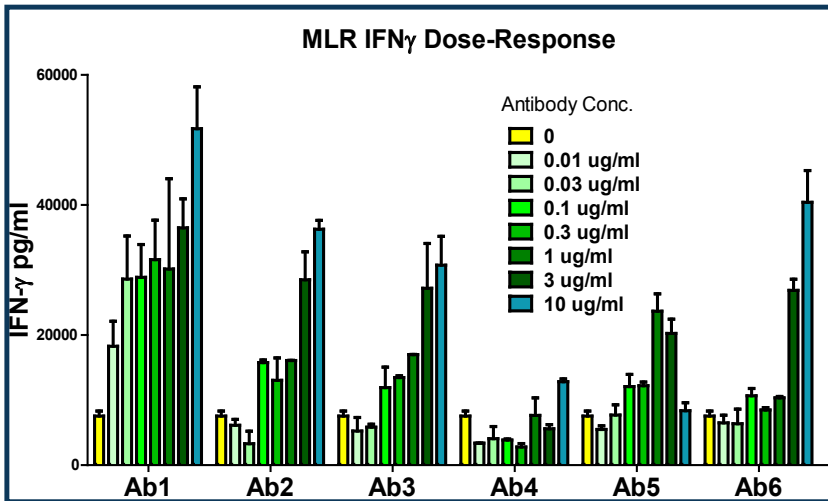
### SMALL MOLECULE APPROACH

Compound Generation	<ul style="list-style-type: none"> <li>Chemical synthesis</li> <li>MedChem</li> </ul>
Compound Pool	<ul style="list-style-type: none"> <li>Target specific assays: enzyme, cell-based</li> <li><i>In vitro</i> assays</li> </ul>
Early Leads	<ul style="list-style-type: none"> <li>Syngeneic models</li> <li>Combination therapies</li> <li><i>Ex vivo</i> analysis</li> </ul>
Lead(s)	<ul style="list-style-type: none"> <li>hPBMC assays</li> <li>Antigen specificity</li> </ul>

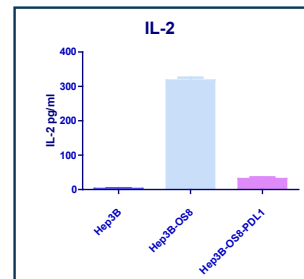
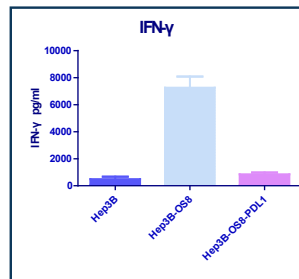
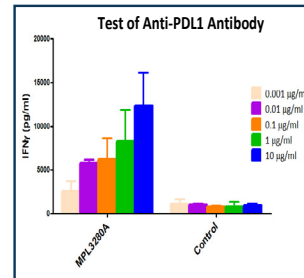
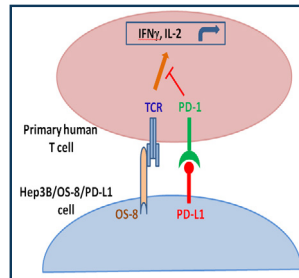
Candidate

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# MIXED LYMPHOCYTE REACTION MLR ASSAY



# TUMOR CELL & T CELL CO-CULTURE ASSAY



# IN VITRO TUMOR IMMUNOLOGY ASSAYS

# IN VIVO TUMOR IMMUNOLOGY MODELS

With over 20 well-characterized syngeneic models and humanized mouse models, we offer our customers a complete pharmacology solution – the case study shown here is an example of how ‘hidden value’ of a targeted therapy was uncovered employing our platform:

Lead CPD with good PK, efficacy in 1 CDX model

Efficacy in 4T1 model, SC tumor, metastasis

MOA: Immune response

Combination efficacy

Immune memory & specificity

1st syngeneic model

More syngeneic & nude mice

Combination

Re-challenge

