



### Optimized Microplates for Affinity Binding Assays

Porvair Sciences' medium- and high-bind Krystal microplates set a new standard for uniform and reproducible capture of a wide range of biomolecules ready for affinity binding assays such

as ELISAs. Manufactured from high-quality crystal polystyrene, these new automation-ready plates are available in a choice of ANSI/SLAS standard (96-well and breakable 8-well-strip) formats. Offering working volumes up to 320  $\mu\text{L}$ , the plates incorporate a flat bottom to ensure superb assay detection every time. Designed for hydrophobic passive adsorption of lipid-rich large biomolecules and antigens, including viral antigens, medium-bind Krystal plates offer a binding capacity of approximately 100 ng immunoglobulin G (IgG)/ $\text{cm}^2$ –200 ng IgG/ $\text{cm}^2$ . Krystal high-bind plates are optimized for passive adsorption of proteins with different grades of hydrophilicity. Offering a binding capacity of 400 ng IgG/ $\text{cm}^2$ –500 ng IgG/ $\text{cm}^2$ , the high-bind plates are ideal for immunoassay of glycoproteins and serum samples.

#### Porvair Sciences

For info: 800-552-3696

[www.microplates.com/krystal-medium-and-high-bind](http://www.microplates.com/krystal-medium-and-high-bind)

### T-Cell Activation Assay Kit

The Agilent Seahorse XF T-cell activation assay offers you improved insight into early T-cell activation dynamics with the ability to test modulators in real time. Our new turnkey solution, the Seahorse XF Hu T-Cell Activation Assay Kit, provides you with validated reagents for consistent results; streamlined workflows with ready-to-use, PDL-coated XF microplates; and a convenient data-analysis tool for profiling maximum response and area under curve. By measuring the increase in glycolysis as proton efflux rate, Agilent Seahorse technology provides an early kinetic window to interrogate T-cell activation.

#### Agilent

For info: 800-227-9770

[www.agilent.com](http://www.agilent.com)

### Antibody Panels for Immune Checkpoints

Discover our range of hand-picked antibody panels to key immuno-oncology targets, which are designed to save you time and provide you with easy access to the best selection of clones on the market. Each panel contains a selection of monoclonal antibodies that detect the same protein, increasing your chances of finding a compatible clone for your assay with just one purchase. We eliminate the need for prescreening by narrowing our catalog to the most suitable immunohistochemistry (IHC)-optimized clones and packaging them in an easily accessible kit so you can determine the best antibody for your IHC research assay needs.

#### abcam

For info: 888-772-2226

[www.abcam.com](http://www.abcam.com)

### Customized CAR-T Constructs

AMS Biotechnology announces a custom chimeric antigen receptor T-cell (CAR-T) service. Drawing upon our expertise in monoclonal antibody development (rabbit and mouse), we can help you design, plan, and execute your CAR-T study, whether you are in the preclinical, clinical, or proof-of-concept stage. We can start with a target molecule (Phase I) or antibody (Phase II). Then we construct the single-chain variable fragment (ScFv), transfer it into a CAR lentivector of your choice, make lentiviruses, and transduce activated human (or mouse) T-cells. After the CAR-T cells proliferate, cytotoxicity is measured in a real-time assay, CAR expression is analyzed, and cytokine production is quantified.

#### AMS Biotechnology

For info: 617-945-5033

[www.amsbio.com/custom-car-t-development](http://www.amsbio.com/custom-car-t-development)

### Fluorescent-Labeled Recombinant Proteins

R&D Systems fluorescent-labeled proteins are designed to simplify detection of a specific chimeric antigen receptor (CAR) on CAR-T cells. Our fluorescent-labeled recombinant proteins are amine-labeled and rigorously tested to ensure consistent labeling of each lot. The proteins are manufactured with controlled procedures to ensure a consistent fluorescein to protein (F/P) ratio, and quality-control tested by flow cytometry to evaluate equivalent staining. Using fluorescent-labeled proteins, target cells expressing the corresponding CAR can be directly stained and detected by flow cytometry. This method of evaluating CAR expression is highly specific, reduces processing time, and eliminates background staining that may occur by indirect detection of the CAR using an epitope-tagged target antigen and a fluorophore-labeled secondary antibody.

#### R&D Systems

For info: 800-343-7475

[www.rndsystems.com](http://www.rndsystems.com)

### FFPE and Liquid Biopsy Reference Standards

Horizon Discovery Group has added two new sample formats to its cell-based OncoSpan reference standards for use in the development and validation of workflows for cancer diagnostic assays. Horizon's OncoSpan range now includes formalin-fixed, paraffin-embedded (FFPE) and cell-free DNA (cfDNA) formats for mimicking solid tumors and liquid biopsy samples, respectively, in addition to its well-established genomic DNA format. Its cfDNA format offers one of the largest number of variants and genes—over 380 and 152 respectively—of any characterized reference standard, to help standardize liquid biopsy testing. These cell line-derived reference standards closely mimic patient samples and offer an unlimited, reproducible resource to ensure consistency during the establishment and validation of diagnostic assays. All three formats are delivered with batch-specific NGS data, orthogonally validated by droplet digital PCR, to allow researchers to further validate their analysis pipeline.

#### Horizon Discovery Group

For info: 800-235-9880

[horizondiscovery.com](http://horizondiscovery.com)

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# Science

## New Products

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