

Immunodetection



Immunodetection solutions from Millipore

Millipore's rapid **immunodetection method** is said to accelerate western blotting by hours. The method, developed using the company's Immobilon-P Transfer Membrane, eliminates the blocking step in western blotting and minimizes the number and length of washes without compromising specificity or sensitivity, says Millipore. The Immobilon-P Transfer Membrane has a uniformly controlled pore structure with a high binding capacity for biomolecules. The open pore structure facilitates access to bound proteins and removes unbound probes from the background. In contrast to nitrocellulose, Millipore says, the Immobilon-P Transfer Membrane provides improved handling characteristics and staining capabilities, increased solvent resistance, and a higher signal-to-noise ratio for enhanced sensitivities. The membrane is available in rolls and cut sheets.

Tel. (+1) 800-MILLIPORE
www.millipore.com/immobilon

Arrays

Monitor four cardiac markers simultaneously with the new TranSignal Cardiac Marker Array from Panomics. The stated benefits of the **cardiac antibody array** are high sensitivity, in that the array can detect cardiac markers in the same range as an ELISA; ease of use; and use of two detection systems — chemiluminescent and colorimetric. The array can be used to detect cardiac markers in plasma or sera. The four cardiac markers are creatine kinase MB, high-sensitivity C-Reactive Protein, myoglobin and cardiac troponin I.

Tel. (+1) 877-726-6642 (USA and Canada)
www.panomics.com

What's in a label?

Sigma-Aldrich offers biotin polyethyleneoxide (PEO) iodoacetamide, a thiol-specific, water-soluble **biotinylation reagent designed for the modification of cysteine residues** in proteins. Following labelling with this reagent, a proteome digest can be quickly fractionated by capture with an appropriate streptavidin- or avidin-based affinity matrix. The company says the result is a significantly simplified mixture that provides for easier identification of individual proteins or peptides. Biotin PEO iodoacetamide has demonstrated utility in thiol labeling in a variety of proteomics-type applications, such as peptide mapping and mass spectrometry. The high affinity of biotin for the proteins avidin and streptavidin (k_d approximately 10^{-15}) is said to facilitate capture and/or detection of biotinylated biomolecules using techniques such as western blotting, ELISA and affinity chromatography. For these applications, a wide variety of avidin and streptavidin conjugates are available from the company, including agaroses, coated multiwell plates and enzyme conjugates.

Tel. (+1) 314-771-5765
www.sigma-aldrich.com

Separation systems



Separation systems for non-human primate cells

Miltenyi Biotec has recently introduced a panel of new products for **magnetic separation of non-human primate cells**. MACS technology is designed for the fast and efficient enrichment of cells by using MACS columns, magnets and MicroBeads. The technology has been well established for human, mouse or rat cell isolation for many years. Miltenyi now extends this to

non-human primates. Specific MACS MicroBeads and kits for the separation of cells from rhesus monkey (*Macaca mulatta*) are available, enabling the isolation of highly pure T cells, B cells, NK cells and monocytes, says Miltenyi Biotec. Fluorochrome-conjugated antibodies for flow cytometric analysis and quality control of MACS separations accompany the MACS non-human primate product line.

Tel. (+49) 2204-8306-0
www.MiltenyiBiotec.com

Chromatography currents

Earlier this year Grace Vydac introduced the Everest high-resolution, reversed-phase, silica-based **columns and media for protein/peptide separations**. The selectivity and increased sensitivity provided by these products is said to result from the company's bonding technology, which maximizes peak resolution of complex digests. The Everest products are also scalable from nano to process applications.

www.gracevydac.com

IHS services

Aradai has expanded its portfolio of human tissue-based services with a broad array of **immunohistochemistry (IHS) services**. The new services are designed to accommodate researcher needs to better understand and characterize both antibodies and targets at any point in discovery and development. They include services for antibody qualification and optimization, as well as full IHC study.

Tel. (+1) 781-274-6420
www.aradai.com

Apoptosis reagents

Alexis Biochemicals offers an **updated mini-catalog of bioreagents and kits for apoptosis research**. Over 400 items are featured, including products for the TNF receptor family, protein ubiquitination, apoptosis detection, as well as caspase substrates and inhibitors. Products are organized by pathway or application and technical notes are included for many product groups.

Tel. (+1) 858-658-0065
www.alexis-corp.com