R&D Systems offers the new Proteome Profiler™ Human Cytokine Array

Human Cytokine Array Kit, Panel A (Catalog # ARY005)

ADVANTAGES

> Simultaneously detects 36 different cytokines, chemokines, and acute phase proteins
> Carefully selected capture and detection antibodies ensure high specificity
> Sensitivity in the low pg/mL range
> Can be used with serum, plasma, or cell culture supernatant
> Uses chemiluminescent detection

For more information visit our website at www.RnDSystems.com/go/ProteomeProfiler

R&D Systems Human Cytokine Array, Panel A utilizes capture antibodies spotted onto a nitrocellulose membrane to allow high-throughput multi-analyte profiling of 36 cytokines, chemokines, and acute phase proteins in a single sample. Above left, peripheral blood mononuclear cells treated with PHA for 24 hrs. were mixed with a cocktail of biotinylated detection antibodies, then incubated with the Human Cytokine Array, Panel A. The array was then incubated with streptavidin-horseradish peroxidase followed by chemiluminescent detection. After detection, the array data were quantitated to generate a protein profile (graph shown below membrane). The table shows the analytes that can be detected using the array and coordinates for each.

For research use only. Not for use in diagnostic procedures.
We won't guarantee that every experiment you do with the ImageStream system will turn into a publication, but we will guarantee that when you analyze your cell sample on the ImageStream you will see more -- and know more -- than you ever thought possible. High resolution imaging of tens of thousands of cells gives you the ability to quantitate the amount, location and movement of multiple target molecules in any cell and for entire populations.

Combining the visual power of microscopy with the statistical power of flow cytometry, the ImageStream system generates six images of every cell -- brightfield, darkfield and up to four fluorescent colors. The cells are imaged directly in flow at up to 15,000 cells per minute.

The variety of applications is enormous: apoptosis, nuclear translocation, co-localization, cell classification, quantitative morphology, phagocytosis, viral infection, FISH in suspension and many more. Measure a wide range of critical cellular events, accurately and reliably, even in rare subpopulations.

To learn more, visit www.amnis.com or call 800-730-7147 toll-free in the US or 206-374-7000 outside the US.

The ImageStream System can be applied to many different research problems. Each of the images above shows a screenshot of data generated by the powerful IDEAS® image analysis software package, an integral part of the ImageStream system. A more complete introduction to the range of ImageStream applications may be found on the Amnis web site at www.amnis.com
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Flow cytometric analysis of Jurkat cells, untreated (green), or LY294002, wortmannin and U0126-treated (blue), using #4854.

Two-color flow cytometric analysis of asynchronous Jurkat cells, using #9708 and #4118. Cells represented in green are positive for cyclin B1 and phospho-histone H3, while cells represented in blue are positive for phospho-histone H3 and negative for cyclin B1. Both cell populations (green and blue) correspond to cells undergoing mitosis.

Flow cytometric analysis of Jurkat cells, untreated (green) or LY294002 and wortmannin treated (blue), using #2336.

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