



GEN-PROBE

Diaclone

ELISpot

Single Cell

Cytokine Secretion

SPECIFICITY & SENSITIVITY
REPRODUCIBILITY & RELIABILITY
FAST TRACK YOUR RESEARCH

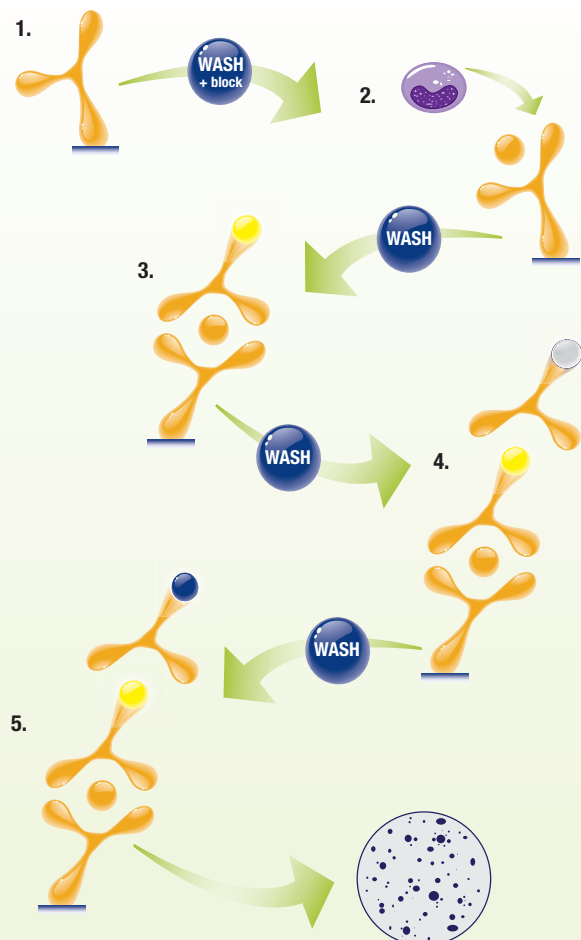
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ACCURATE ANALYSIS OF IMMUNE CELL SECRETION


Diaclone ELISpot (Enzyme-Linked Immunospot Assay) are highly specific immunoassays for the analysis of cytokine and other soluble molecule production and secretion from T-cells at a single cell level in conditions closely comparable to the *in-vivo* environment with minimal cell manipulation.

Utilising sandwich immuno-enzyme technology, Diaclone ELISpot and Dual ELISpot assays can detect both secreted cytokines and measure the frequency of single cells that simultaneously produce multiple cytokines or other effector molecules.

- 1: A capture antibody highly specific to the cytokine to be detected is coated to each well of a PVDF bottomed 96 well microtitre plate.
- 2: Cell suspension and stimulant added to coated and blocked microtitre plate and the plate incubated allowing the specific antibodies to bind cytokines produced.
- 3: Biotinylated/FITC tagged anti-cytokine detection antibodies are then added which bind to the previously captured cytokines.
- 4: Conjugated enzyme/anti FITC conjugated mAb added binding to the detection antibodies.
- 5: Colour substrate/UV exposure applied to the wells resulting in coloured spots which can be quantified using appropriate analysis software or manually using microscopes.



Key

-  Antibody
-  Analyte
-  Cells and stimulant added
-  Biotinylated/FITC tag
-  Conjugated enzyme
-  Colour substrate reaction

VALUABLE INVESTIGATIVE TOOL

ELISpot techniques are amongst the most-sensitive methods available (up to 400x more sensitive than conventional ELISA) for cytokine research and benefit from a technically easy performance, rapid detection time and no requirement for expensive equipment or analysis software.

With a large choice of specific antibodies available Diaclone ELISpot assays are a valuable investigation tool for a wide range of research areas.

HIGH PERFORMANCE

- Highly sensitive assay can allow the detection of a single cell out of 100,000
- Fast Procedure following cell stimulation
- Accuracy and reliability are guaranteed as all our reagents have been validated according to ISO 9001:2000 quality systems
- Reagents generate well focused, defined and easy to analyse 'spots'
- No cross reactivity with other human cytokines tested

FLEXIBILITY

- Extensive kit range across different species with high specificity and affinity for a number of different cytokines and soluble molecules
- Mono and Dual cytokine analysis available using both enzymatic and fluorescent detection systems
- ELISpot reagents available in a number of formats from pre-coated kits for easy analysis and increased throughput to matched Antibody Pairs, a great tool for developing research

With the benefits of specific, sensitive, accurate and reliable measurement of cytokines and soluble molecules from a very low ratio of levels combined with the diversity of the product range, Diaclone ELISpot is the clear choice to...

Fast Track Your Research...

Other Products Available:



Monoclonal Antibodies



ELISA



Diaclone DIAplex

With over 20 years experience and extensive expertise we are committed to providing excellence in Monoclonal Antibody and Immunoassay development. The expanding range of Diaclone immunology products is specifically designed to advance diagnostic and research applications.

Distributor Details



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