

Dual-Color ELISpot Kits

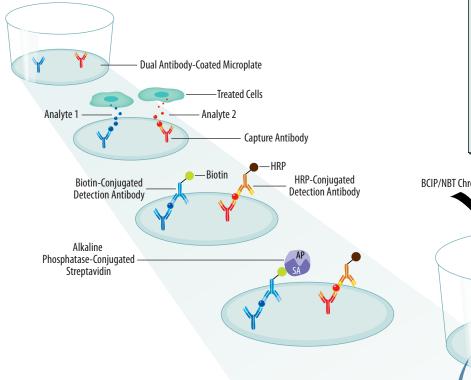
A Simple Method for Simultaneously Detecting the Secretion of Two Cytokines

- Simultaneously determine the frequency of cells secreting two different cytokines
- ✓ Appropriate for monitoring immune responses ✓ Measure responses with frequencies below 1 in 100,000 cells
 - ✓ Highly reproducible ✓ Suitable for high-throughput analysis using small volumes of primary cells
 - ✓ Does not require prior cell expansion in vitro

Assay Principle

R&D Systems Dual-Color ELISpot Kits are designed to simultaneously quantitate the frequency of individual cells in a population secreting two different cytokines using a version of the sandwich ELISA immunoassay. Stimulated cells are incubated in a dual antibody-coated, membrane-backed microplate well. Secreted cytokines are bound by immobilized capture antibodies and detected using HRP- or biotin-conjugated detection antibodies. Spots at the sites of cytokine localization, representing individual cytokine-secreting cells, are visualized using alkaline phosphatase (AP)-conjugated Streptavidin (SA) followed by BCIP/NBT chromogen substrate or AEC chromogen substrate to detect HRP.

Spots of Analyte Localization



Kit Components

Dual Antibody-Coated, PVDF-Backed Microplate
HRP- and Biotin-Conjugated Detection Antibodies
Alkaline Phosphatase-conjugated Streptavidin
BCIP/NBT & AEC Chromogen Substrates
Recombinant Protein Positive Controls
Wash & Dilution Buffers

