Datasheet for ABIN2690976

Human IFN-γ ELISPOT Pair

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Overview

Quantity:	5 plate
Target:	Interferon gamma (IFNG)
Reactivity:	Human
Application:	ELISpot

Product Details

Brand:	BD™ ELISPOT
Sterility:	0.2 µm filtered
Endotoxin Level:	Endotoxin level is ≤0.01 ng/µg of protein.
Components:	This product contains sufficient reagent for five 96-well plates, including unlabelled capture antibody (no azide/low endotoxin format), biotinylated detection antibody, and a Certificate of Analysis that provides lot-specific optimal reagent concentrations.

Target Details

Target:	Interferon gamma (IFNG)
Alternative Name:	IFN-gamma (IFNG Products)

Application Details

Application Notes:	The enzyme-linked immunospot (ELISPOT) assay is a powerful tool for detecting and enumerating individual cells that secrete a particular protein in vitro. Based on the sandwich ELISA, the ELISPOT assay derives its specificity and sensitivity by employing high affinity

Application Details

	capture and detection antibodies and enzyme-amplification. Although originally developed for analyzing specific antibody-secreting cells, the assay has been adapted for measuring the frequencies of cells that produce and secrete other effector molecules, such as cytokines. The sensitivity of the assay lends itself to measurement of even very low frequencies of cytokine producing cells (e.g., 1/300,000). Unique strengths of the assay include high sensitivity, high throughput, high content analysis, minimal volume of biological material required, applicability to frozen/thawed biological samples, and compatibility with other assays. For example, cells analyzed by ELISPOT can be transferred for cloning, proliferation assays, flow cytometry, or other methods of analysis.
Comment:	BD™ ELISPOT Human IFN-γ ELISPOT Pair
Restrictions:	For Research Use only

Handling

Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm filtered.
Preservative:	Without preservative
Storage:	4 °C
Storage Comment:	Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Helms, Boehm, Asaad, Trezza, Lehmann, Tary-Lehmann: "Direct visualization of cytokine-producing recall antigen-specific CD4 memory T cells in healthy individuals and HIV patients." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 164, Issue 7, pp. 3723-32, (2000) (PubMed). Fujihashi, McGhee, Beagley, McPherson, McPherson, Huang, Kiyono: "Cytokine-specific ELISPOT assay. Single cell analysis of IL-2, IL-4 and IL-6 producing cells." in: **Journal of immunological methods**, Vol. 160, Issue 2, pp. 181-9, (1993) (PubMed). Czerkinsky, Andersson, Ekre, Nilsson, Klareskog, Ouchterlony: "Reverse ELISPOT assay for clonal analysis of cytokine production. I. Enumeration of gamma-interferon-secreting cells." in: **Journal of immunological methods**, Vol. 110, Issue 1, pp. 29-36, (1988) (PubMed). Sedgwick, Holt: "A solid-phase immunoenzymatic technique for the enumeration of specific

antibody-secreting cells." in: **Journal of immunological methods**, Vol. 57, Issue 1-3, pp. 301-9, (1983) (PubMed).