

Datasheet for ABIN2691038
Mouse TNF ELISpot Set



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Overview

Quantity:	10 plate
Target:	TNF alpha
Reactivity:	Mouse
Method Type:	Cell ELISA
Application:	ELISpot

Product Details

Brand:	BD™ ELISPOT
Sample Type:	Cell Samples
Detection Method:	Colorimetric

Characteristics:	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 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.
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Product Details

Components:	10 ELISPOT plates
	Unlabeled Capture Antibody
	Biotinylated Detection Antibody
	Enzyme Conjugate
	Certificate of Analysis

Target Details

Target:	TNF alpha
Alternative Name:	TNF (TNF alpha Products)

Application Details

Application Notes:	Unique strengths of the assay include the following: High sensitivity High throughput, high content analysis Minimal volume of biological material required Applicability to frozen/thawed biological samples Compatibility with other assays. For example, cells analyzed by BD™ ELISPOT can be transferred for cloning, proliferation assays, flow cytometry, or other methods of analysis.
Comment:	BD™ ELISPOT Mouse TNF ELISPOT Set
Plate:	Uncoated
Restrictions:	For Research Use only

Handling

Storage:	4 °C
Storage Comment:	Store unopened reagents at 2-8°C. Do not use reagents after expiration date, or if turbidity is evident.

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).
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Power, Grand, Ismail, Peters, Yurkowski, Bretscher: "A valid ELISPOT assay for enumeration of ex vivo, antigen-specific, IFNgamma-producing T cells." in: **Journal of immunological methods**, Vol. 227, Issue 1-2, pp. 99-107, (1999) ([PubMed](#)).

Tary-Lehmann, Hricik, Justice, Potter, Heeger: "Enzyme-linked immunosorbent assay spot detection of interferon-gamma and interleukin 5-producing cells as a predictive marker for renal allograft failure." in: **Transplantation**, Vol. 66, Issue 2, pp. 219-24, (1998) ([PubMed](#)).

VanCott, Staats, Pascual, Roberts, Chatfield, Yamamoto, Coste, Carter, Kiyono, McGhee: "Regulation of mucosal and systemic antibody responses by T helper cell subsets, macrophages, and derived cytokines following oral immunization with live recombinant Salmonella." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 156, Issue 4, pp. 1504-14, (1996) ([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](#)).

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