

Datasheet for ABIN2691005
Human TNF ELISPOT Pair



[Go to Product page](#)

5 Publications

Overview

Quantity:	5 plate
Target:	TNF alpha
Reactivity:	Human
Application:	ELISpot

Product Details

Brand:	BD™ ELISPOT
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:	TNF alpha
Alternative Name:	TNF (TNF alpha 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 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
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Application Details

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 TNF ELISPOT Pair

Restrictions: For Research Use only

Handling

Buffer: Aqueous buffered solution containing protein stabilizer and ≤0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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](#)).

Rönblom, Cederblad, Sandberg, Alm: "Determination of herpes simplex virus-induced alpha interferon-secreting human blood leucocytes by a filter immuno-plaque assay." in:

Scandinavian journal of immunology, Vol. 27, Issue 2, pp. 165-70, (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](#)).