Datasheet for ABIN2690980

# Human IL-10 ELISpot Set

6 Publications

Go to Product page

## Overview

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| Quantity: | 10 plate |
| Target: | IL-10 (IL10) |
| Reactivity: | Human |
| Method Type: | Cell ELISA |
| Application: | ELISpot |

## Product Details

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| 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. |

## Product Details

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| Components: | 10 ELISPOT plates<br>Unlabeled Capture Antibody<br>Biotinylated Detection Antibody<br>Enzyme Conjugate<br>Certificate of Analysis |

## Target Details

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| Target: | IL-10 (IL10) |
| Alternative Name: | IL-10 (IL10 Products) |

## Application Details

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| Application Notes: | Unique strengths of the assay include the following:<br>High sensitivity<br>High throughput, high content analysis<br>Minimal volume of biological material required<br>Applicability to frozen/thawed biological samples<br>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 Human IL-10 ELISPOT Set - Reactivity Hu |
| Plate: | Uncoated |
| Restrictions: | For Research Use only |

## Handling

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| 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

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| Product cited in: | 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).

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).

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