

# Human IL-2 ELISPOT Antibody Pair ab46598

### 製品の概要

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**製品名** Human IL-2 ELISPOT Antibody Pair

**サンプルの種類** Suspension cells

**アッセイタイプ** Sandwich (qualitative)

**ステップ** Multiple steps standard assay

**種交差性** **交差種:** Human

### 製品の概要

The ELISPOT assay is designed to enumerate cytokine producing cells in a single cell suspension. This method has the advantage of requiring a minimum of in-vitro manipulations allowing cytokine production analysis as close as possible to in-vivo conditions in a highly specific way. This technique is designed to determine the frequency of cytokine producing cells under a given stimulation, and the follow-up of such frequency during a treatment and/or a pathological state. Elispot assay constitutes an ideal tool in the TH1 / TH2 response, vaccine development, viral infection monitoring and treatment, cancerology, infectious diseases, autoimmune diseases and transplantation.

This ELISPOT assay is based on sandwich immuno-enzyme technology. Cell secreted cytokines or soluble molecules are captured by coated antibodies avoiding diffusion in supernatant, protease degradation or binding on soluble membrane receptors. After cell removal, the captured cytokines are revealed by tracer antibodies and appropriate conjugates.

### Principal:

After cell stimulation, locally produced cytokines are captured by a specific monoclonal antibody. After cell lysis, trapped cytokine molecules are revealed by a secondary biotinylated detection antibody, which is in turn recognised by streptavidin conjugated to alkaline phosphatase. PVDF-bottomed-well plates are then incubated with BCIP/NBT substrate. Colored "purple" spots indicate cytokine production by individual cells.

Recognizes natural human IL2.

**アプリケーション**

**適用あり:** ELISpot

**試験プラットフォーム**

Reagents

### 製品の特性

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## 保存方法

Store at +4°C. Please refer to protocols.

内容	10 x 96 tests
Human IL-2 Capture antibody	2 x 500µl
IL-2 Biotinylated detection antibody	2 vials

## 関連性

Human interleukin 2 (IL-2) is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL-4) and interleukin 7 (IL-7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli. IL-2 has been shown to have antitumor effects in some studies. This is probably mediated by cytotoxic effector cells.

## 細胞内局在

Secreted

## アプリケーション

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アプリケーション	Abreviews	特記事項
ELISpot		Use at an assay dependent dilution.

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