

Product datasheet

Human IL-12p70 ELISpot Pair ab281987

Overview

Product name Human IL-12p70 ELISpot Pair

Detection method Colorimetric

Precision

Intra-assay

Sample	n	Mean	SD	CV%
Overall	12	323cells/well		1.4%
Overall	12	221cells/well		7.1%
Overall	12	142cells/well		10.5%
Overall	12	83cells/well		11.6%
Overall	12	35cells/well		11.5%

Sample type Suspension cells

Assay type ELISPOT

Assay duration Multiple steps standard assay

Species reactivity **Reacts with:** Human

Product overview Human IL-12p70 ELISpot Pair (ab281987) is an antibody pair designed for the analysis of cytokine and other soluble molecule production and secretion from PBMC cells at a single cell level by the ELISpot method.

For the quantitative determination of the frequency of Human IL-12p70-producing cells.

For research use only - not intended for diagnostic use.

Tested applications **Suitable for:** ELISpot

Platform Microplate (12 x 8 well strips)

Properties

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

Components	10 x 96 tests
Biotinylated Human IL-12p70 detection antibody	2 vials
Human IL-12p70 Capture Antibody	2 x 0.5ml

Relevance

Interleukin 12 is a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. Interleukin 12 is a disulfide-linked heterodimer composed of the 35 kD cytokine receptor like subunit encoded by IL-12A gene, and a 40 kD subunit encoded by IL-12B. This cytokine is expressed by activated macrophages that serve as an essential inducer of Th1 cells development. It is required for the T-cell-independent induction of interferon (IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. This cytokine has been found to be important for sustaining a sufficient number of memory/effector Th1 cells to mediate long-term protection to an intracellular pathogen. The responses of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4. Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this cytokine in innate immunity. Overexpression of this gene was observed in the central nervous system of patients with multiple sclerosis (MS), suggesting a role of this cytokine in the pathogenesis of the disease. The promoter polymorphism of this gene has been reported to be associated with the severity of atopic and non-atopic asthma in children.

Cellular localization

Secreted

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab281987 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISpot		Use at an assay dependent concentration.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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