

Datasheet for ABIN4986930

IL12 ELISA Kit





Overview

Quantity:	96 tests
Target:	IL12
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.25-2000 pg/mL
Minimum Detection Limit:	31.25 pg/mL
Application:	ELISA

Product Details

Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (citrate), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Natural and recombinant Human IL-12p70 Ligand
Sensitivity:	7 pg/mL
Material not included:	Microplate reader.Pipettes and pipette tips.

Target Details

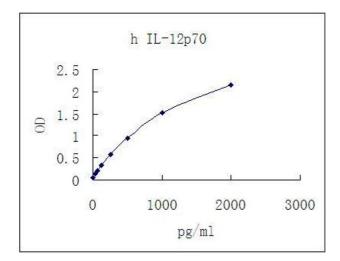
• EP tube Deionized or distilled water.

Target Details

Alternative Name:	IL-12p70 (IL12 Products)
Background:	IL-12, also known as natural killer cell stimulatory factor (NKSF) or cytotoxic lymphocyte
	maturation factor (CLMF), is a pleiotropic cytokine produced primarily by antigen-presenting
	cells (monocytes/macrophages, dendritic cells and B lymphocytes). IL-12 has multiple effects
	on T lymphocytes and natural killer (NK) cells, including the ability to stimulate cytotoxicity,
	proliferation, cytokine production and Th1 subset development (1, 2).IL-12 is a disulfide-linked,
	70 kDa (p70) heterodimeric glycoprotein composed of a 40 kDa (p40) subunit and a 35 kDa
	(p35) subunit. The p40 and p35 subunits by themselves do not have IL-12 activity, but the
	homodimer of p40 has been shown to bind the IL-12 receptor and is an IL-12 antagonist (3,
	4). The genes for human p40 and p35, found on chromosomes 5 and 3, respectively, are
	independently regulated (1, 5). The expression of p35 mRNA has been found to be nearly
	ubiquitous. However, p35 subunits have not been detected in culture supernates of cells
	expressing only p35 or both p35 and p40 mRNAs (1). In cells expressing both p35 and p40
	mRNAs, p40 mRNA is expressed to a higher level and free p40 subunits not associated with
	p35 subunits are secreted together with heterodimeric IL-12p70 (6).In the culture supernates o
	various activated human monocytes where free p40 is present in vast excess over p70, the
	levels of p70 measured by bioassays are consistent with those measured using a p70-specific
	immunoassay, suggesting that p40 monomers are not efficient IL-12 antagonists (1, 7).
	Currently, the physiological role of free p40 subunits is not clear.
Pathways:	JAK-STAT Signaling, TLR Signaling, Cellular Response to Molecule of Bacterial Origin,
	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process,
	Activated T Cell Proliferation, Cancer Immune Checkpoints, Inflammasome
Application Details	
Application Notes:	Detection Wavelength: 450 nm
Sample Volume:	20 μL
Assay Time:	3 h
Plate:	Pre-coated
Restrictions:	For Research Use only

4°C

Storage:



ELISA

Image 1.