



User's Manual

IL-12/ IL-23 p40 ELISA Kit

REF

DEIABL347



96T

RUO

This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

Creative Diagnostics

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PRODUCT INFORMATION

Intended Use

The human IL-12/IL-23 p40 ELISA is an enzyme-linked immunosorbent assay for the quantitative detection of human IL-12/IL-23 p40. The human IL-12/IL-23 p40 ELISA is for research use only. Not for diagnostic or therapeutic procedures.

General Description

IL-23 and IL-12 are heterodimeric cytokines which share the p40 subunit, but have unique second subunits, IL-23p19 and IL-12p35. IL-12p70 is a heterodimer composed of a 35-kDa subunit (IL-12p35) and the 40-kDa subunit (IL-12p40) that binds the IL-12 receptor. The p40 subunit is secreted in excess of IL-12p35 and can also associate with p19 (IL-23P19 or IL-23A) to form IL-23. The p19 subunit shares sequence similarity with IL-6 subfamily members and is distantly related to the p35 subunit of IL-12. It shows no biological activity by itself and combines with the p40 subunit of IL-12 to form a biologically active, composite cytokine, IL-23. IL-23 signals through the IL-23 receptor and has functions that overlap with and are distinct from those of IL-12. Unlike IL-12, IL-23 has no effect on naive T cells but selectively activates memory T cells to secrete IFN- and IL-17. IL-23 is more potent than IL-12 in inducing long-lasting T-cell responses to viral antigens and can induce tumor-directed cytotoxic T-cell responses.

Storage

2-8°C

Precision

Sample	Experiment	Mean Human IL-12/IL-23 p40 Concentration (pg/ml)	Coefficient of Variation (%)
1	1	217	7.4
	2	188	4.9
	3	167	9.6
2	1	359	3.6
	2	356	4.7
	3	362	5.2
3	1	102	5.9
	2	111	3.6
	3	120	5.7
4	1	78	7.0
	2	100	6.5
	3	70	7.3
5	1	3354	3.5
	2	3492	5.7
	3	3203	6.6
6	1	2227	1.9
	2	2196	2.2
	3	2162	2.0
7	1	1601	1.7
	2	1617	2.1
	3	1527	1.6
8	1	715	2.7
	2	696	7.2
	3	701	4.5

Sample	Mean Human IL-12/IL-23 p40 Concentration (pg/ml)	Coefficient of Variation (%)
1	190	13.2
2	359	0.7
3	111	8.0
4	83	19.1
5	3350	4.3
6	2195	1.5
7	1582	3.1
8	704	1.4

Detection Range

31.2 - 2000 pg/mL



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Sensitivity

<10 pg/ml