

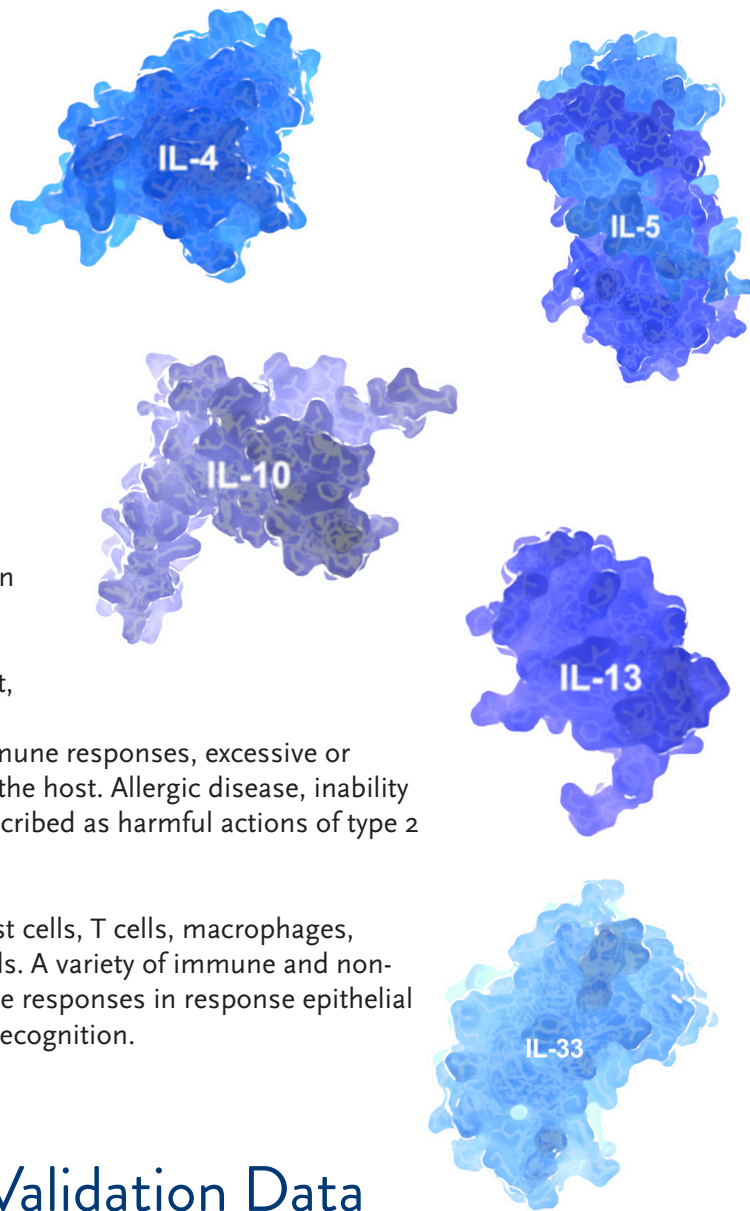
# Q-PLEX™ HUMAN TYPE 2 IMMUNITY (5-PLEX)



The Q-Plex™ Human Type 2 Immunity (5-Plex) is a fully quantitative plate-based multiplex ELISA for the detection of cytokines associated with type 2 immunity.

**QUANSYS**   
BIOSCIENCES

<b>Species Specificity</b>	Human
<b>Assay Type</b>	Sandwich
<b>Sample Type</b>	Human Serum, EDTA/ Heparin Plasma
<b>Assay Length</b>	2.25 hours
<b>Volume Required Per Well</b>	Min. 25 µL
<b>Detection Mention</b>	Chemiluminescent
<b>Multiplex Format</b>	96-well solid plate
<b>Catalog #</b>	114233HU



## Background

The Q-Plex™ Human Type 2 Immunity (5-Plex) is a fully quantitative plate-based multiplex ELISA for the detection of cytokines associated with type 2 immunity.

Functions of type 2 immunity include protecting the host, maintaining metabolic homeostasis, suppressing type 1, barrier defense, and tissue regeneration. Like other immune responses, excessive or chronic activation of type 2 immunity can be harmful to the host. Allergic disease, inability to defend against pathogens, and fibrosis have been described as harmful actions of type 2 immunity.

Producers of type 2 cytokines include macrophages, mast cells, T cells, macrophages, monocytes, basophils, eosinophils, and natural killer cells. A variety of immune and non-immune cells have been noted to produce type 2 cytokine responses in response epithelial damage, release of alarmins, and antigen presentation/recognition.

## Example Performance and Validation Data

Analyte	Assay Type	Calibrator Range	Upper Limit of Quantification (ULOQ)	Lower Limit of Quantification (LLOQ)	Limit of Detection	Precision* (Inter-assay)	Precision* (Intra-assay)	Average* Linearity
IL-4	Sandwich	1,676 – 2.30 (pg/mL)	1,173 (pg/mL)	3.0 (pg/mL)	1.15 (pg/mL)	6%	6%	94%
IL-5	Sandwich	3,000 – 4.12 (pg/mL)	2,100 (pg/mL)	5.3 (pg/mL)	2.06 (pg/mL)	10%	7%	95%
IL-10	Sandwich	8,039 – 11.03 (pg/mL)	5,627 (pg/mL)	14.3 (pg/mL)	5.51 (pg/mL)	7%	5%	103%
IL-13	Sandwich	3,000 – 4.12 (pg/mL)	2,100 (pg/mL)	5.3 (pg/mL)	2.06 (pg/mL)	6%	7%	98%
IL-33	Sandwich	350 - 0.48 (pg/mL)	245 (pg/mL)	0.62 (pg/mL)	0.24 (pg/mL)	15%	6%	92%

\* Actual values may vary from kit to kit. Please see the In-Kit Certificate of Analysis included in your kit for specific values.



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