

Resource Summary Report

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ELISA for quantification of IL-5 in human serum.

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Type: Protocol

Proper Citation

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Protocol Information

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Summary: Interleukins (IL) are a type of cytokine first thought to be expressed by leukocytes alone but have later been found to be produced by many other body cells. They play essential roles in the activation and differentiation of immune cells, as well as proliferation, maturation, migration, and adhesion. They also have pro-inflammatory and anti-inflammatory properties. The primary function of interleukins is, therefore, to modulate growth, differentiation, and activation during inflammatory and immune responses. Interleukins consist of a large group of proteins that can elicit many reactions in cells and tissues by binding to high-affinity receptors in cell surfaces. They have both paracrine and autocrine function. Interleukins are also used in animal studies to investigate aspect related to clinical medicine. T cells and stem cells make IL-3. It functions as a multilineage colony-stimulating factor. CD4+T cells (Th2) produce IL-5, and its principal targets are B cells. It causes B-cell growth factor and differentiation and IgA selection. Besides, causes eosinophil activation and increased production of these innate immune cells
[1]Reference1. Justiz Vaillant AA, Qurie A. Interleukin. In: StatPearls. Treasure Island (FL): StatPearls Publishing; June 12, 2019.

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