

Resource Summary Report

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ELISA for quantification of IL-22 in human serum.

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Type: Protocol

Proper Citation

Angel Justiz-Vaillant 2020. ELISA for quantification of IL-22 in human serum.. protocols.io dx.doi.org/10.17504/protocols.io.bj3rkqm6

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.bj3rkqm6>

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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. Different cells in both innate and acquired immunities produce IL-22, but the primary sources are T cells. Th22 cell is a new line of CD4+ T cells, which differentiated from naive T cells in the presence of various pro-inflammatory cytokines including IL-6. IL-22 inhibits IL-4 production. It also has essential functions in mucosal surface protection and tissue repair. [1]Reference1. Justiz Vaillant AA, Qurie A. Interleukin. In:StatPearls. Treasure Island (FL): StatPearls Publishing; June 12, 2019.

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