

## IL11

### Human Interleukin-11 ELISA Kit

<b>Catalog No.</b>	CKH153	<b>Quantity:</b>	1 x 96 tests
<b>Alternate Names:</b>	Oprelvekin, AGIF, Adipogenesis Inhibitory Factor		
<b>Description:</b>	<p>Interleukin-11 (IL11) is a protein that in humans is encoded by the IL11 gene. IL11 is a multifunctional cytokine first isolated from bone marrow-derived stromal cells. It is a key regulator of multiple events in hematopoiesis, most notably the stimulation of megakaryocyte maturation. IL11 is a 23 kDa protein and a member of the IL6-type cytokine family, distinguished based on their use of the common co-receptor gp130. These cytokines drive the assembly of multi-subunit receptor complexes, all of which contain at least one molecule of the transmembrane signaling receptor IL6ST (gp130). Signal specificity is provided by the IL11R alpha subunit. IL11 is shown to stimulate the T-cell-dependent development of immunoglobulin-producing B-cells. It is also found to support the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells. The Human IL11 ELISA is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human IL11 in serum, plasma, cell culture supernatants and urine. This assay employs an antibody specific for IL11 coated on a 96-well plate. Standards and samples are pipetted into the wells and IL11 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and Biotinylated Anti-Human IL11 antibody is added. After washing away unbound Biotinylated antibody, HRP-Streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of IL11 bound.</p>		
<b>Sensitivity:</b>	The minimum detectable dose of IL11 is typically less than 3 pg/mL.		
<b>Reproducibility:</b>	Intra-Assay: CV<10%; Inter-Assay: CV<12%		
<b>Samples:</b>	Serum, plasma, cell culture supernatants and urine.		
<b>Recovery:</b>	Serum mean recovery of 98% (range 85-104%) Plasma mean recovery of 95% (range 83-103%) Cell culture media mean recovery of 101% (range 89-108%)		
<b>Reagents Included:</b>	<ol style="list-style-type: none"> <li>1. Microplate 96-wells coated with Capture Antibody</li> <li>2. Wash Buffer Concentrate (20x)</li> <li>3. Standards</li> <li>4. Assay Diluent A: Standard/Sample-Serum/Plasma</li> <li>5. Assay Diluent B: Standard/Sample-Cell Culture Medium/Urine</li> <li>6. Biotinylated Detection Antibody</li> <li>7. HRP-Streptavidin Concentrate</li> <li>8. TMB One-Step Substrate Reagent</li> <li>9. Stop Solution</li> </ol>		
<b>Storage &amp; Stability:</b>	May be stored for up to 6 months at 2-8°C from the date of shipment. Standard should be stored below -20°C (-80°C recommended) after reconstitution. Opened Microplate Wells and reagents may be store for up to 1 month at 2-8°C. Return unused wells to the pouch containing desiccant pack, reseal along entire edge of zip seal.		

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

