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Datasheet for ABIN4986933

IL-15 ELISA Kit





Overview

Quantity:	96 tests
Target:	IL-15 (IL15)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	7.8-500 pg/mL
Minimum Detection Limit:	7.8 pg/mL
Application:	ELISA

Product Details

Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (citrate), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Natural and recombinant Human IL-15 Ligand
Sensitivity:	4 pg/mL
Material not included:	 Microplate reader. Pipettes and pipette tips. EP tube Deionized or distilled water.

Target Details

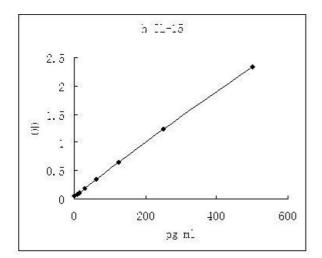
Target:	IL-15 (IL15)

Target Details

rarget Details	
Alternative Name:	IL-15 (IL15 Products)
Background:	Interleukin 15 (IL-15) is a 14 kDa cytokine that is structurally and functionally related to IL-2(1-
	3). Mature human IL-15 shares 70 % amino acid sequence identity with mouse and rat IL-15.
	Alternate splicing generates isoforms of IL-15 with either a long or short signal peptide (LSP or
	SSP), and the SSP isoform is retained intracellularly (4). IL-15 associates with IL-15 R α in the
	endoplasmic reticulum, and this complex is expressed on the cell surface (5, 6). The dominant
	mechanism of IL-15 action is known as transpresentation in which IL-15 and IL-15 R α are
	coordinately expressed on the surface of one cell and interact with complexes of IL-2 R $\!\beta/\gamma c$ on
	adjacent cells (7). This enables cells to respond to IL-15 even if they do not express IL-15 R α (6,
	8). Consistent with its shared use of IL-2 receptor subunits, IL-15 induces IL-2-like effects in
	lymphocyte development and homeostasis (3). It is particularly important for the maintenance
	and activation of NK cells and CD8+ memory T cells (3). IL-15 also exerts pleiotropic effects on
	other hematopoietic cells and nonimmune cells (2). Ligation of membraneassociated IL-15/IL-
	15Rα complexes induces reverse signaling that promotes cellular adhesion, tyrosine
	phosphorylation of intracellular proteins, and cytokine secretion by the IL-15/IL-15Rα
	expressing cells (9, 10).
Pathways:	JAK-STAT Signaling, Glycosaminoglycan Metabolic Process
Application Details	
Application Notes:	Detection Wavelength: 450 nm
Sample Volume:	20 μL
Assay Time:	3 h
Plate:	Pre-coated
Restrictions:	For Research Use only
Handling	
Handling	

4°C

Storage:



ELISA

Image 1.