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Datasheet for ABIN1889338

IL15RA ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	IL15RA
Binding Specificity:	AA 33-205
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	125-8000 pg/mL
Minimum Detection Limit:	125 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse IL15RA
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: G33-K205
Specificity:	Expression system for standard: NSO Immunogen sequence: G33-K205
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity: <10pg/mL

Material not included: Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

Target Details

Target: IL15RA

Alternative Name: IL15RA ([IL15RA Products](#))

Background: Protein Function: High-affinity receptor for interleukin-15. Can signal both in cis and trans where IL15R from one subset of cells presents IL15 to neighboring IL2RG-expressing cells. Signal transduction involves SYK (By similarity).

Background: Interleukin 15 receptor, alpha subunit is a subunit of the interleukin 15 receptor which is encoded by the gene IL15RA in humans. The human IL15RA gene was mapped to chromosome 10p15-p14 by FISH and the mouse Il15ra gene was mapped to chromosome 2. The cytoplasmic domain of IL15R-alpha, like that of IL2R-alpha, was dispensable for mitogenic signaling, suggesting that the primary role of the alpha chains is to confer high-affinity binding. At high concentrations, IL15, like IL2, was able to signal through a complex of IL2R-beta and -gamma in the absence of the alpha subunit. The soluble receptor displayed high affinity for IL15 and inhibited both binding of IL15 to the membrane receptor and IL15-induced cell proliferation.

Synonyms: Interleukin-15 receptor subunit alpha,IL-15 receptor subunit alpha,IL-15R-alpha,IL-15RA,CD215,Soluble interleukin-15 receptor subunit alpha,sIL-15 receptor subunit alpha,sIL-15R-alpha,sIL-15RA,Il15ra,

Full Gene Name: Interleukin-15 receptor subunit alpha

Cellular Localisation: Membrane, Single-pass type I membrane protein . Nucleus membrane, Single-pass type I membrane protein.

Gene ID: 16169

UniProt: [Q60819](#)

Pathways: [JAK-STAT Signaling](#)

Application Details

Application Notes: Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well

Application Details

assay was recommended for both standard and sample testing.

Comment: Tissue Specificity: Widely expressed. .

Plate: Pre-coated

Protocol: mouse IL15RA ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. Monoclonal antibody from rat specific for IL15RA has been precoated onto 96-well plates. Standards(NSO, G33-K205) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL15RA is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse IL15RA amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 8000pg/mL, 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL mouse IL15RA standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse IL15RA standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 925, Standard deviation: 43.5, CV(%): 4.7
- Sample 2: n=16, Mean(pg/ml): 3080, Standard deviation: 200.2, CV(%): 6.5
- Sample 3: n=16, Mean(pg/ml): 5122, Standard deviation: 276.6, CV(%): 5.4,
- Sample 1: n=24, Mean(pg/ml): 1273, Standard deviation: 65, CV(%): 5.1
- Sample 2: n=24, Mean(pg/ml): 3377, Standard deviation: 236.4, CV(%): 7
- Sample 3: n=24, Mean(pg/ml): 5419, Standard deviation: 341.4, CV(%): 6.3

Restrictions: For Research Use only

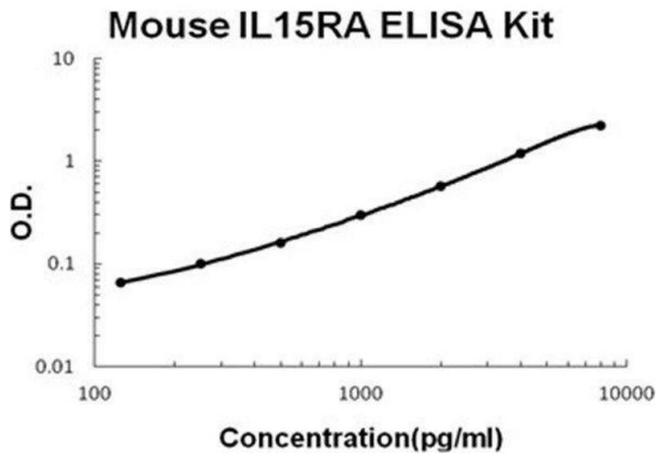
Handling

Handling Advice: Avoid multiple freeze-thaw cycles.

Storage: -20 °C,4 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Expiry Date: 12 months



ELISA

Image 1. Mouse IL15RA PicoKine ELISA Kit standard curve