

Mouse CD132/IL2RG ELISA Kit | CD132/IL2RG elisa kit

Mouse CD132/IL2RG ELISA Kit

CATALOG #
AAA258472

REACTIVITY
Mouse

PRODUCT SYNONYMS

CD132/IL2RG; Mouse CD132/IL2RG ELISA Kit; IL2RG ELISA Kit; Mouse; interleukin 2 receptor; gamma; CD132 ELISA Kit; gamma(c) ELISA Kit; gc ELISA Kit; [g]c ELISA Kit; CD132/IL2RG elisa kit

PRODUCT SPECIFICATIONS

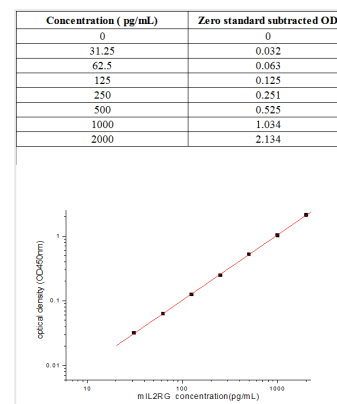
Reactivity	Mouse
Specificity	For the quantitative determination of Mouse CD132/IL2RG concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	31.25-2000pg/mL
Sensitivity	15.53pg/mL
Conjugation	HRP
Interference	Preparations of the factors listed below at 20ng/mL in a mid-range recombinant mouse IL2RG control were assayed for interference. No significant interference was observed. Interference was observed with recombinant mouse IL2, mouse IL13RA1 and mouse IL13RA2 at concentrations $\geq$ 2ng/mL.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

IMAGES

Recombinant human			
IL2RG	ratIL2RG	IL12Rb1	IL27Ra-Fc
IL12b	IL21R	IL23R-Fc	IL2Rb
IL31Ra	IL3Ra	IL4R	IL6R
IL7Ra	IL2	IL4	IL7
IL15	IL21	IL13RA1	IL13RA2

Application Data

This assay recognizes both recombinant and natural Mouse IL2RG. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for CD132/IL2RG elisa kit	This IL2RG ELISA Kit, Mouse is an enzyme-linked immunosorbent assay for the quantitative measurement of Mouse IL2RG protein in Serum. It contains recombinant Mouse IL2RG, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: The common gamma chain (gammac)(or CD132), also known as interleukin-2 receptor subunit gamma or IL2RG, is a member of the type I cytokine receptor family expressed on most lymphocyte (white blood cell) populations, and its gene is found on the X-chromosome of mammals. The common gamma chain (gammac)(or IL2RG), is a cytokine receptor subunit that is common to the receptor complexes for at least six different interleukin receptors: IL-2, IL-4, IL-7, IL-9, IL-15, and the interleukin-21 receptor. It is a component of multiple cytokine receptors that are essential for lymphocyte development and function. X-linked severe combined immunodeficiency (X-SCID) is a rare and potentially fatal disease caused by mutations of IL2RG, the gene encoding IL2RG. IL2RG was demonstrated to be a component of the IL-4 receptor based on chemical cross-linking data, the ability of IL2RG to augment IL-4 binding affinity. The observation that IL-2R gamma is a functional component of the IL-4 receptor, together with the finding that IL-2R gamma associates with the IL-7 receptor, begins to elucidate why a deficiency of this common gamma chain (gamma c) has a profound effect on lymphoid function and development, as seen in X-linked severe combined immunodeficiency.
References	Russell SM, et al. (1993) Interleukin-2 receptor gamma chain: a functional component of the interleukin-4 receptor. Science. 262 (5141): 1880-3. Miyazaki T, et al. (1994) Functional activation of Jak1 and Jak3 by selective association with IL-2 receptor subunits. Science. 266 (5187): 1045-7. Takeshita T, et al. (1992) Cloning of the gamma chain of the human IL-2 receptor. Science. 257 (5068): 379-82.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/cd132-il2rg/258472>