

## Anti-IL-2 R gamma/CD132 Antibody-PE (3J53)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	PE
Clone:	3J53
Purification:	Protein A

## Applications

Verified Activity:	Flow cytometric analysis of mouse IL2RG(CD132) expression on mouse splenocytes. BABL/c splenocytes were stained with PE-conjugated anti-Mouse IL2RG(CD132). The histogram were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes.
Application:	FCM
Recommended	10 µl/Test, 0.1 mg/ml

## Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Mouse CD132 / IL2RG protein (TMPY-01837)
Antigen Species:	Mouse
Synonyms:	IL-2 R $\gamma$ ;IL2RG;CIDX;CD132;IL-2 R $\gamma$ /CD132;SCIDX1;P64;IMD4;SCIDX;gammaC; $\gamma$ C;IL-2 R gamma

## Research Background

The common gamma chain ( $\gamma$ c) (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 ( $\gamma$ c) (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.

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