

## Biotin Anti-Mouse CD132 Antibody[3E12]

**Catalog Number:** E-AB-F1015B

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

<b>Reactivity</b>	Mouse
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG2b, $\kappa$
<b>Clone No.</b>	3E12
<b>Isotype Control</b>	Biotin Rat IgG2b, $\kappa$ Isotype Control[LTF-2] [Product E-AB-F09843B]
<b>Conjugation</b>	Biotin
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.

### Applications Recommended usage

<b>FCM</b>	Each lot of this antibody is quality control tested by flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is $\leq 1.0 \mu\text{g}$ per $10^6$ cells in $100 \mu\text{L}$ volume or $100 \mu\text{L}$ of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
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### Preparation & Storage

<b>Storage</b>	Keep as concentrated solution. This product can be stored at $2-8^{\circ}\text{C}$ for 12 months. Do not freeze.
<b>Shipping</b>	Ice bag

### Antigen Information

<b>Alternate Names</b>	CD132;Cytokine receptor common subunit gamma;IL-2 receptor subunit gamma;IL-2R subunit gamma;IL-2RG;IL2rg;Interleukin-2 receptor subunit gamma;gammaC;p64
<b>Uniprot ID</b>	P34902
<b>Gene ID</b>	16186
<b>Background</b>	CD132 is a 64-70 kD type I transmembrane glycoprotein of the Ig superfamily, and is also known as common $\gamma$ chain ( $\gamma\text{c}$ ) or IL-2 receptor $\gamma$ subunit. It is expressed broadly on T- and B-lymphocytes, NK cells, monocytes, and granulocytes. CD132 is an essential component of cytokine receptors for IL-2, IL-4, IL-7, IL-9, IL-15, and IL-21. Ligand binding induces tyrosine phosphorylation and initiates signaling through a JAK/STAT pathway. CD132 mutation results in X-linked severe combined immune deficiency (XSCID).

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