

Ultra-LEAF™ Purified anti-human CD132 (common γ chain) Antibody

Catalog# / Size	338609 / 100 μ g 338610 / 1 mg
Clone	TUGh4
Regulatory Status	RUO
Workshop	VI C-89
Other Names	Common γ chain, γ c, IL-2 receptor γ subunit
Isotype	Rat IgG2b, κ
Description	CD132 is a 64-70 kD type I transmembrane glycoprotein of the Ig superfamily, also known as common γ chain (γ c), or IL-2 receptor γ 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).

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Rat
Formulation	0.2 μ m filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is < 0.01 EU/ μ g of the protein (< 0.001 ng/ μ g of the protein) as determined by the LAL test.
Preparation	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Concentration	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. Older lots may have also been bottled at 1 mg/mL. To obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is \leq 0.5 μ g per million cells in 100 μ L volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application References	<ol style="list-style-type: none">1. Itano M, <i>et al.</i> 1996. <i>J. Exp. Med.</i> 178:3892. Kondo M, <i>et al.</i> 1993. <i>Science</i> 262:1874
RRID	AB_2860871 (BioLegend Cat. No. 338609) AB_2860872 (BioLegend Cat. No. 338610)

Antigen Details

Structure	Type I transmembrane glycoprotein, Ig superfamily 64-70 kD
Distribution	T cells, B cells, NK, monocytes, granulocytes

Ligand/Receptor	Component of cytokine receptors for IL-2, IL-4, IL-7, IL-9, IL-15 and IL-21
Cell Type	B cells, Granulocytes, Monocytes, NK cells, T cells
Biology Area	Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors
Antigen References	<ol style="list-style-type: none"> 1. Zola H, <i>et al.</i> eds. 2007. <i>Leukocyte and Stromal Cell Molecules: The CD Markers</i>. Wiley-Liss A John Wiley & Sons Inc, Publication 2. Nakarai T, <i>et al.</i> 1994. <i>J. Exp. Med.</i> 180:241 3. Kawahara A, <i>et al.</i> 1995. <i>Proc. Natl. Acad. Sci. USA.</i> 92:8724 4. Habib T, <i>et al.</i> 2002. <i>Biochemistry.</i> 41:8725 5. Matthews DJ, <i>et al.</i> 1995. <i>Blood</i> 85:38
Gene ID	3561

Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD132 (common γ chain), PE anti-human CD132 (common γ chain), APC anti-human CD132 (common γ chain), Ultra-LEAF™ Purified anti-human CD132 (common γ chain)

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