

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 (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"> 1. Itano M, <i>et al.</i> 1996. <i>J. Exp. Med.</i> 178:389 2. 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</i>:The CD Markers. 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)

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587