

APC anti-human CD132 (common γ chain) Antibody

Catalog# / Size	338607 / 25 tests 338608 / 100 tests
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, African Green, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions.
Concentration	Lot-specific (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, and protected from prolonged exposure to light. Do not freeze.
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 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Red Laser (633 nm)
Application References	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
(PubMed link indicates BioLegend citation)	
Product Citations	1. Wefers C, <i>et al.</i> 2018. <i>Int J Mol Sci.</i> 19. PubMed 2. Hodge L, <i>et al.</i> 2012. <i>Blood.</i> 120:3774. PubMed 3. Matsubara Y, <i>et al.</i> 2014. <i>Sci Rep.</i> 4:5043. PubMed 4. Massoud R, <i>et al.</i> 2015. <i>Proc Natl Acad Sci U S A.</i> 112: 11030-11035. PubMed 5. Jiang J, <i>et al.</i> 2016. <i>Sci Rep.</i> 6: 32320. PubMed 6. Market M, <i>et al.</i> 2020. <i>Front Immunol.</i> 1.127083333. PubMed 7. Farhat AM, <i>et al.</i> 2021. <i>Cell Reports.</i> 35(4):109044. PubMed
RRID	AB_2123585 (BioLegend Cat. No. 338607) AB_2123584 (BioLegend Cat. No. 338608)

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, Publication2. Nakarai T, <i>et al.</i> 1994. <i>J. Exp. Med.</i> 180:2413. Kawahara A, <i>et al.</i> 1995. <i>Proc. Natl. Acad. Sci. USA.</i> 92:87244. Habib T, <i>et al.</i> 2002. <i>Biochemistry.</i> 41:87255. Matthews DJ, <i>et al.</i> 1995. <i>Blood</i> 85:38
Gene ID	3561

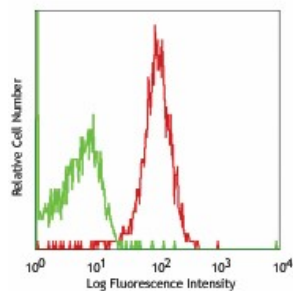
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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

Product Data



Human peripheral blood lymphocytes stained with TUGh4 APC

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