

LEAF™ Purified anti-mouse CD132 (common γ chain)

Catalog # / Size: 132303 / 50 μ g
132304 / 500 μ g

Clone: TUGm2

Isotype: Rat IgG2b, κ

Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 μ m filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/ μ g of the protein (<0.01 ng/ μ g of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:

Applications: FC - *Quality tested*
Block - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is $\leq 1.0 \mu$ g per 10^6 cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application References: 1. Kondo M, *et al.* 1993. *Science* 262:1874 (Block)
2. Kondo M, *et al.* 1994. *Science* 263:1453
3. Kimura Y, *et al.* 1995. *Int Immunol.* 7:115 (Block)

Description: CD132 is a 64-70 kD type I transmembrane glycoprotein of the Ig superfamily, and is 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).

Antigen References: 1. Itano M, *et al.* 1996. *Tohoku J. Exp. Med.* 178:389
2. Zola H, *et al.* eds. 2007. *Leukocyte and Stromal Cell Molecules: The CD Markers*. Wiley-Liss A John Wiley & Sons Inc, Publication
3. Nakarai T, *et al.* 1994. *J. Exp. Med.* 180:241
4. Kawahara A, *et al.* 1995. *Proc. Natl. Acad. Sci. USA.* 92:8724
5. Habib T, *et al.* 2002. *Biochemistry.* 41:8725
6. Matthews DJ, *et al.* 1995. *Blood* 85:38

Related Products:	Product	Clone	Application
	LEAF™ Purified Rat IgG2b, κ Isotype Ctrl	RTK4530	FC, ICFC, WB, IP, ICC, IF, IHC, FA
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC



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