

Product Data Sheet

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

Catalog # / Size: 338604 / 500 μ g

Clone: TUGh4

Isotype: Rat IgG2b, κ

Workshop Number: VI C-89

Reactivity: Human, **Cross-Reactivity:** Dog

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*
FA - *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 ≤ 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: 1. Itano M, *et al.* 1996. *J. Exp. Med.* 178:389
2. Kondo M, *et al.* 1993. *Science* 262:1874

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).

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

Related Products:

Product
LEAF™ Purified Rat IgG2b, κ Isotype Ctrl

Clone
RTK4530

Application
FC, ICFC, WB, IP, ICC, IF,
IHC, FA
FC, ICC, ICFC
FC, ICFC

Cell Staining Buffer
RBC Lysis Buffer (10X)



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