

Product Data Sheet

Purified anti-mouse CD132 (common γ chain)

Catalog # / Size: 132302 / 100 μ g

Clone: TUGm2

Isotype: Rat IgG2b, κ

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: FC - *Quality tested*

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
Purified Rat IgG2b, κ Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)

Clone
RTK4530

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



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