

Product Data Sheet

PE anti-human CD132 (common γ chain)

Catalog # / Size: 338605 / 25 tests
 338606 / 100 tests

Clone: TUGh4

Isotype: Rat IgG2b, κ

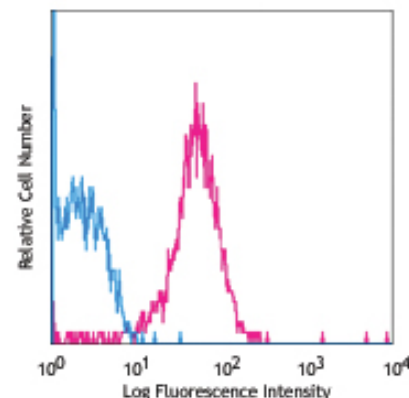
Workshop Number: VI C-89

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

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with TUGh4 PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

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
 PE Rat IgG2b, κ Isotype Ctrl
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
 RTK4530

Application
 FC, ICFC
 FC, ICC, ICFC
 FC, ICFC
 FC, ICC, ICFC



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