

# Product Data Sheet

## APC anti-human CD132 (common $\gamma$ chain)

**Catalog # / Size:** 338607 / 25 tests  
 338608 / 100 tests

**Clone:** TUGh4

**Isotype:** Rat IgG2b,  $\kappa$

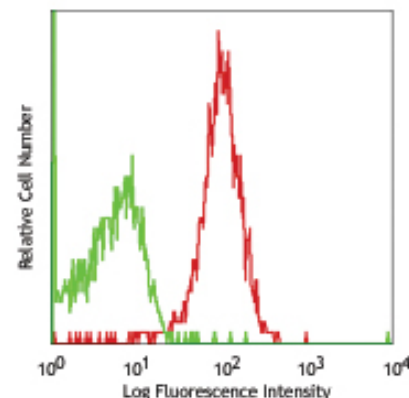
**Workshop Number:** VI C-89

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

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

## 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  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ 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](http://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
3. Hodge LS, *et al.* 2012. *Blood.* 120:3774. PubMed.

**Description:** CD132 is a 64-70 kD type I transmembrane glycoprotein of the Ig superfamily, also known as common  $\gamma$  chain ( $\gamma$ c), or IL-2 receptor  $\gamma$  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:**

<b>Product</b>	<b>Clone</b>	<b>Application</b>
APC Rat IgG2b, $\kappa$ Isotype Ctrl	RTK4530	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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