

# Product Data Sheet

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

**Catalog # / Size:** 338602 / 100  $\mu$ g

**Clone:** TUGh4

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

**Workshop Number:** VI C-89

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

**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  $\leq 0.125$   $\mu$ g per million cells in 100  $\mu$ 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  $\gamma$  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:

**Product**  
Purified Rat IgG2b,  $\kappa$  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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