



1P-194-T100

## Monoclonal Antibody to CD132 Phycoerythrin (PE) conjugated (100 tests)

<b>Clone:</b>	TUGh4
<b>Isotype:</b>	Rat IgG2b
<b>Specificity:</b>	The rat monoclonal antibody TUGh4 recognizes CD132 (the common gamma chain), a 65-70 kDa type I transmembrane glycoprotein broadly expressed by most leukocytes. HLDA VI; WS Code C-89
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Human CD132-transfected cell line
<b>Species Reactivity:</b>	Human, Canine (Dog)
<b>Preparation:</b>	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD132 / common gamma chain is an essential component of receptors for IL-2, IL-4, IL-7, IL-9, IL-15, and IL-21, and it is critical for development of the immune system. Its mutation causes X-linked severe combined immunodeficiency disease (XSCID). CD132 is expressed on lymphocytes, NK cells, monocytes, and granulocytes. Through its cytoplasmic part which contains four tyrosines and an SH2 domain, CD132 transduces signal to downstream JAK/STAT pathway.

**For laboratory research only, not for drug, diagnostic or other use.**



**Antibodies**

- References:**
- \*Itano M, Tsuchiya S, Morita S, Fujie H, Ishii N, Yanagisawa T, Ohashi Y, Minegishi M, Sugamura K, Konno T: IL-2 receptor gamma chain expression on CD34 positive hematopoietic progenitor cells from bone marrow and cord blood. *Tohoku J Exp Med.* 1996 Apr;178(4):389-98.
  - \*Corrigall VM, Arastu M, Khan S, Shah C, Fife M, Smeets T, Tak PP, Panayi GS: Functional IL-2 receptor beta (CD122) and gamma (CD132) chains are expressed by fibroblast-like synoviocytes: activation by IL-2 stimulates monocyte chemoattractant protein-1 production. *J Immunol.* 2001 Mar 15;166(6):4141-7.
  - \*Brisslert M, Bokarewa M, Larsson P, Wing K, Collins LV, Tarkowski A: Phenotypic and functional characterization of human CD25+ B cells. *Immunology.* 2006 Apr;117(4):548-57.
  - \*Amu S, Brisslert M: Phenotype and function of CD25-expressing B lymphocytes isolated from human umbilical cord blood. *Clin Dev Immunol.* 2011;2011:481948.
  - \*Fiorito S, Magrini L, Adrey J, Mailhé D, Brouty-Boyé D: Inflammatory status and cartilage regenerative potential of synovial fibroblasts from patients with osteoarthritis and chondropathy. *Rheumatology (Oxford).* 2005 Feb;44(2):164-71.
  - \*Marino JH, Tan C, Taylor AA, Bentley C, Van De Wiele CJ, Ranne R, Paliotta M, Broughan TA, Teague TK: Differential IL-7 responses in developing human thymocytes. *Hum Immunol.* 2010 Apr;71(4):329-33.

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