



1P-195-T100

Monoclonal Antibody to CD122 Phycoerythrin (PE) conjugated (100 tests)

Clone:	TU27
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody TU27 recognizes CD122 (IL-2R beta), a 70-75 kDa type I transmembrane glycoprotein constitutively expressed by NK cells and a T cell subset, and upregulated upon activation. HLDA V; WS Code C050
Regulatory Status:	RUO
Immunogen:	TL-Mor cell line
Species Reactivity:	Human
Preparation:	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.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	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.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD122 (IL-2/IL-15R beta) constitutes together with CD132 (common gamma chain) and with CD25 (IL-2/IL15R alpha) the intermediate (CD122+CD132) and the high affinity (CD122+CD132+CD25) IL-2 and IL-15 receptor complex. CD122 is expressed on NK cells and lymphocytes, but at low level, unless the cell is activated. The cytoplasmic part of CD122 binds to Src-family and Jak-family kinases. The biological effect of CD122 ligation depends on whether IL-2 or IL-15 is bound to the receptor complex.

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

**Antibodies****References:**

- *Huss DJ, Mehta DS, Sharma A, You X, Riester KA, Sheridan JP, Amaravadi LS, Elkins JS, Fontenot JD: In vivo maintenance of human regulatory T cells during CD25 blockade. *J Immunol.* 2015 Jan 1;194(1):84-92.
- *Sahraoui Y, Perraki M, Theodoropoulou M, Allouche M, Tsapis A, Ammar A, Clemenceau C, Bokogiorgou S, Yacci T, Katrinakis G, Jasmin C, Georgoulas V: Autocrine IL-2-dependent growth of a newly established CD3+, CD16-, CD56+, CD57+, J(H)-, TCRbeta-, TCRgamma- leukemia cell line (NOI-90). *Leukemia.* 1997 Feb;11(2):245-52.
- *Ozawa A, Tada H, Tamai R, Uehara A, Watanabe K, Yamaguchi T, Shimauchi H, Takada H, Sugawara S: Expression of IL-2 receptor beta and gamma chains by human gingival fibroblasts and up-regulation of adhesion to neutrophils in response to IL-2. *J Leukoc Biol.* 2003 Sep;74(3):352-9.
- *Sharkey AM, Xiong S, Kennedy PR, Gardner L, Farrell LE, Chazara O, Ivarsson MA, Hiby SE, Colucci F, Moffett A: Tissue-Specific Education of Decidual NK Cells. *J Immunol.* 2015 Oct 1;195(7):3026-32.
- *Gallart T, de la Fuente MA, Barceló JJ, Alberola-Ila J, Lozano F: Desialylation of T lymphocytes overcomes the monocyte dependency of pokeweed mitogen-induced T-cell activation. *Immunology* 1997 Jan;90(1):57-65.
- *Elkins J, Sheridan J, Amaravadi L, Riester K, Selmaj K, Bielekova B, Parr E, Giovannoni G: CD56(bright) natural killer cells and response to daclizumab HYP in relapsing-remitting MS. *Neurol Neuroimmunol Neuroinflamm.* 2015 Jan 22;2(2):e65.

Unless indicated otherwise, all products are For Research Use Only and not for diagnostic or therapeutic use. Not for resale or transfer either as a stand-alone product or as a component of another product without written consent of EXBIO. EXBIO will not be held responsible for patent infringement or other violations that may occur with the use of our products. All orders are accepted subject to EXBIO's term and conditions which are available at www.exbio.cz.

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

EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz