

Code No. 10399F

**Anti-Mouse
CD122/IL-2R β (TM- β 1) Rat IgG MoAb (Frozen)**Volume : 0.5 mg

Introduction : CD122 is expressed on NK cells and on some T cells. CD122 is known as IL-2 receptor β chain which composes high-affinity IL-2 receptor and also known as a component of IL-15.

TM- β 1, a monoclonal antibody directed against CD122, inhibits IL-2/IL-2R interactions. This product can also be applicable with *in vivo* tests.

Antigen : TART-m β cells with recombinant mouse IL-2R β transfected (ref. 6)

Source : Mouse-Rat hybridoma
(PA1 \times SD rat popliteal lymph node cells)

Clone : TM- β 1 **Subclass** : IgG2b

Purification : Affinity purified with Protein A

Form : Frozen product in PBS
(no additives, filtrated by 0.2 μ m, low endotoxin level < 0.3 EU/mg)

Stability : 2 years at -20 °C

Application : This antibody can be used for blocking test. (Refer to references below.)

Specificity : Reacts with mouse CD122 (IL-2R β)

- Reference** :
1. Sobolev O, Stern P, Lacy-Hulbert A, Hynes RO. Natural killer cells require selectins for suppression of subcutaneous tumors. *Cancer Res.* 2009 Mar 15;69(6):2531-9.
 2. Miki T, Yano S, Hanibuchi M, Kanematsu T, Muguruma H, Sone S. Parathyroid hormone-related protein (PTHrP) is responsible for production of bone metastasis, but not visceral metastasis, by human small cell lung cancer SBC-5 cells in natural killer cell-depleted SCID mice. *Int J Cancer.* 2004 Feb 10;108(4):511-5.
 3. Nokihara H, Yanagawa H, Nishioka Y, Yano S, Mukaida N, Matsushima K, Sone S. Natural killer cell-dependent suppression of systemic spread of human lung adenocarcinoma cells by monocyte chemoattractant protein-1 gene transfection in severe combined immunodeficient mice. *Cancer Res.* 2000 Dec 15;60(24):7002-7.
 4. Yano S, Nishioka Y, Izumi K, Tsuruo T, Tanaka T, Miyasaka M, Sone S. Novel metastasis model of human lung cancer in SCID mice depleted of NK cells. *Int J Cancer.* 1996 Jul 17;67(2):211-7.
 5. Tanaka T, Kitamura F, Nagasaka Y, Kuida K, Suwa H, Miyasaka M. Selective long-term elimination of natural killer cells *in vivo* by an anti-interleukin 2 receptor beta chain monoclonal antibody in mice. *J Exp Med.* 1993 Sep 1;178(3):1103-7.
 6. Tanaka T, Tsudo M, Karasuyama H, Kitamura F, Kono T, Hatakeyama M, Taniguchi T, Miyasaka M. A novel monoclonal antibody against murine IL-2 receptor beta-chain. Characterization of receptor expression in normal lymphoid cells and EL-4 cells. *J Immunol.* 1991 Oct 1;147(7):2222-8.

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