

# Product Data Sheet

## LEAF™ Purified anti-human CD122 (IL-2R $\beta$ )

**Catalog # / Size:** 339004 / 500  $\mu$ g

**Clone:** TU27

**Isotype:** Mouse IgG1  $\kappa$

**Workshop Number:** V C050

**Immunogen:** TL-Mor cell line

**Reactivity:** Human

**Preparation:** The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

**Formulation:** 0.2  $\mu$ m filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/ $\mu$ g of the protein (<0.01 ng/ $\mu$ g of the protein) as determined by the LAL test.

**Concentration:** 1.0 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

## Applications:

**Applications:** FC - *Quality tested*  
FA - *Reported in the literature*

**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 or 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications include (for the relevant formats) include: immunoprecipitation, blocking of IL-2 binding to CD122, and partial inhibition of IL-2 induced cell proliferation.

**Application References:** 1. Takeshita T, *et al.* 1989. *J. Exp. Med.* 169:1323.

**Description:** CD122 is a 70-75 kD type I transmembrane glycoprotein and member of the Ig superfamily. It is IL-2 receptor  $\beta$  chain also known as IL-2R $\beta$ , which is also shared by the IL-15 receptor. CD122 is constitutively expressed by NK cells and at lower levels by a subset of T cells. Its expression is upregulated upon activation. The IL-2R $\beta$  chain can combine with either the common  $\gamma$  subunit ( $\gamma$ c, CD132) alone or with the  $\gamma$ c subunit and the IL-2R $\alpha$  subunit (CD25) to generate intermediate or high affinity IL-2 receptor complexes, respectively. CD122 expression levels can be upregulated by activation.

**Antigen References:** 1. Zola H, *et al.* 2007. *Leukocyte and Stromal Cell Molecules: The CD Markers* Wiley-Liss A John Wiley & Sons Inc, Publication  
2. Minami Y, *et al.* 1993. *Annu. Rev. Immunol.* 11:245.  
3. Suzuki H, *et al.* 1995. *Science* 268:1472.

### Related Products:

**Product**  
LEAF™ Purified Mouse IgG1,  $\kappa$  Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

**Clone**  
MG1-45

**Application**  
FC, ICFC, WB, IP, ICC, IF, FA  
FC, ICC, ICFC  
FC, ICFC



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