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Product Data Sheet

LEAF™ Purified anti-human CD122 (IL-2Rβ)

Catalog # / Size: 339004 / 500 µg
Clone: TU27
Isotype: Mouse IgG1 κ
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 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg 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 ≤0.125 µg per million cells in 100 µl volume or 100 µl 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 β chain also known as IL-2Rβ, 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-2Rβ chain can combine with either the common γ subunit (γc, CD132) alone or with the γc subunit and the IL-2Rα 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	Clone	Application
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl	MG1-45	FC, ICFC, WB, IP, ICC, IF, FA
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC

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