

**PE/Dazzle™ 594 anti-human CD122 (IL-2Rβ)**

**Catalog # / Size:** 2295090 / 100 tests  
2295085 / 25 tests

**Clone:** TU27

**Isotype:** Mouse IgG1, κ

**Immunogen:** TL-Mor cell line

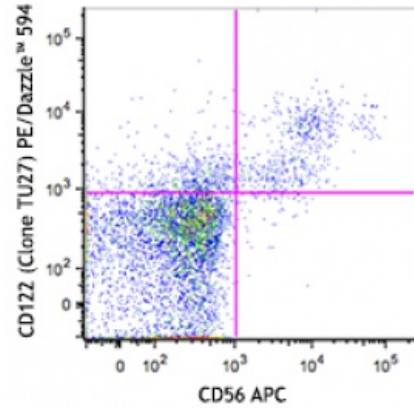
**Reactivity:** Human, Non-human primate

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Workshop Number:** V C050

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with CD56 APC and CD122 (clone TU27) PE/Dazzle™ 594 (top) or mouse IgG1, κ PE/Dazzle™ 594 isotype control (bottom).

**Applications:**

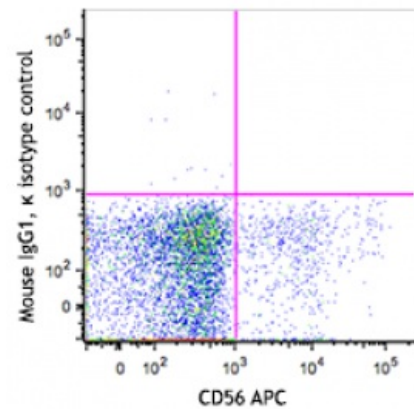
**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μl per million cells or 5 μl per 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. 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.*



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