

**KIRAVIA Blue 520™ anti-human CD122 (IL-2Rβ)**

**Catalog # / Size:** 2295135 / 25 tests  
2295140 / 100 tests

**Clone:** TU27

**Isotype:** Mouse IgG1, κ

**Immunogen:** TL-Mor cell line

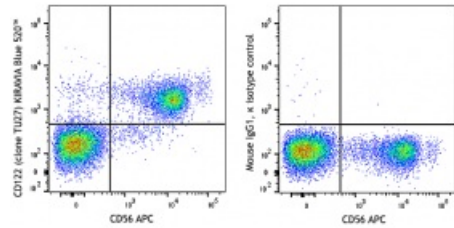
**Reactivity:** Human, Non-human primate, Other

**Preparation:** The antibody was purified by affinity chromatography and conjugated with KIRAVIA Blue 520™ under optimal conditions.

**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 anti-human CD122 (IL-2Rβ) (clone TU27) KIRAVIA Blue 520™ (left) or mouse IgG1, κ isotype control (right). Cells were costained with CD56 APC.

**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 in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* KIRAVIA Blue 520™ has an excitation maximum of 495 nm, and a maximum emission of 520 nm.

**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.

