

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

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

Clone: TU27

Isotype: Mouse IgG1, κ

Immunogen: TL-Mor cell line

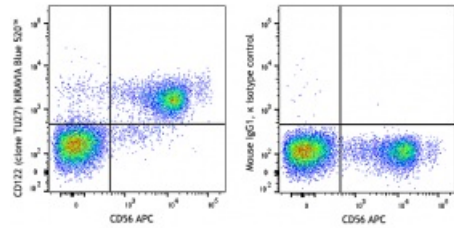
Reactivity: Human, Non-human primate, Other

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

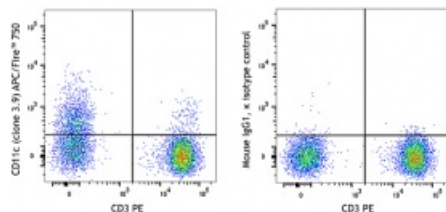


Human peripheral blood lymphocytes were stained with anti-human CD122 (IL-2Rβ) (clone TU27) KIRAVIA Blue 520™ (left) or mouse IgG1, κ isotype control (right). Cells were costained with CD56 APC.

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.



Human peripheral blood lymphocytes were stained with PE anti-human CD3 and APC/Fire™ 750 anti-human CD11c (clone 3.9) (left) or mouse IgG1, κ APC/Fire™ 750 isotype control (right).

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.

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

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-2R β , 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 β chain can combine with either the common γ subunit (γ c, CD132) alone or with the γ c subunit and the IL-2R α 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.