SONY

Product Data Sheet

Brilliant Violet 421™ anti-human CD122 (IL-2Rβ)

Catalog # / Size: 2295045 / 25 tests
2295050 / 100 tests

Clone: TU27

Isotype: Mouse IgG1, κ

Immunogen: TL-Mor cell line

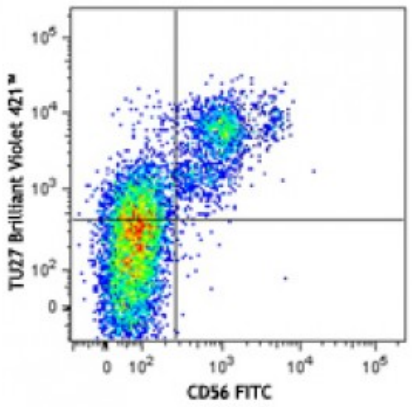
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.

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

Workshop Number: V C050

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD56 FITC and CD122 (clone TU27) Brilliant Violet 421™ (top) or mouse IgG1, κ Brilliant Violet 421™ 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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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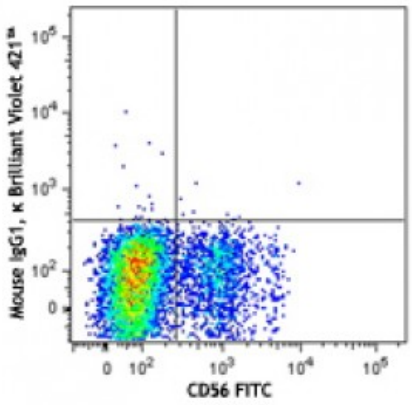

applications and foreign equivalents.

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*