



DATA SHEET

Brilliant Violet 421™ anti-mouse CD127 (IL-7R α) Antibody

Catalog# / Size KT135027 / 50 μ g

Clone A7R34

Other Names IL-7 receptor α chain, IL-7R α

Isotype Rat IgG2a, κ

Description CD127 is a 60-90 kD type I transmembrane glycoprotein also known as IL-7 receptor α chain or IL-7R α . It forms a heterodimer with the common γ chain (γ c or CD132) which is shared with the receptors for IL-2, IL-4, IL-9, IL-13, IL-15, and IL-21. CD127 is expressed on immature B cells through early pre-B stage, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, and bone marrow stromal cells. CD127 has been reported to be a useful marker for identifying memory and effector T cells. The ligation of IL-7 with its receptor is important for stimulation of mature and immature T cells as well as immature B cells proliferation and development.

Product Details

Reactivity Mouse

Antibody Type Monoclonal

Host Species Rat

Immunogen IL-7R α -IgG1 fusion protein

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

Preparation The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.

Concentration μ g sizes: 0.2 mg/ml lot-specific (please contact [technical support](#) for concentration and total μ g amount)

Storage & Handling The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.**

Application FC - Quality tested

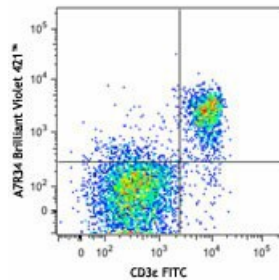
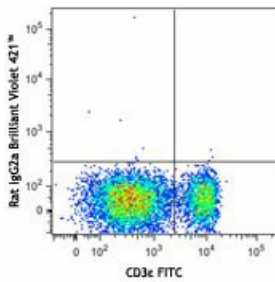
Recommended Usage Each lot of this antibody is quality control tested by [immunofluorescent staining with flow cytometric analysis](#). For immunofluorescent staining using the μ g size, the suggested use of this reagent is ≤ 0.5 μ g per million cells in 100 μ l volume. For immunofluorescent staining using μ l sizes, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l 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.

Antigen Details

Structure	Type I transmembrane glycoprotein, associate with CD132, 60-90 kD
Distribution	Immature B cells through early pre-B stage, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, bone marrow stromal cells
Function	T cell and immature B cell proliferation and development
Ligand/Receptor	IL-7
Cell Type	B cells, T cells, Thymocytes
Biology Area	Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors

Product Data



C57BL/6 mouse splenocytes were stained with CD3ε FITC and CD127 (clone A7R34) Brilliant Violet 421™ (top) or rat IgG2a, κ Brilliant Violet 421™ isotype control (bottom).

For In-Vitro Diagnostic Use. Not For Human Or Animal Consumption.