

Brilliant Violet 421™ anti-human CD210 (IL-10 R)

Catalog # / Size: 2144075 / 25 tests
2144080 / 100 tests

Clone: 3F9

Isotype: Rat IgG2a, κ

Immunogen: shIL-10R

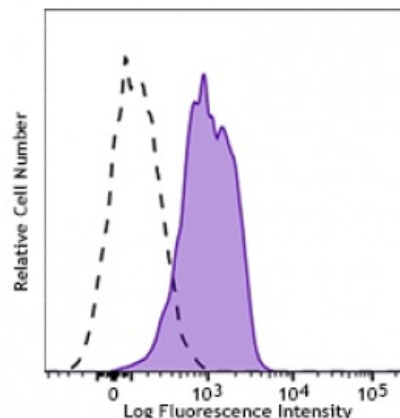
Reactivity: Human, Non-human primate

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: VII 70502

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD210 (clone 3F9) Brilliant Violet 421™ (filled histogram) or rat IgG2a, κ Brilliant Violet 421™ isotype control (open histogram).

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.

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.

This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

Application Notes: Clone 3F9 recognizes the IL-10-binding epitope of IL-10R^{1,8}. Additional reported applications (for the relevant formats) include: immunoprecipitation¹, *in vitro* blocking¹⁻³ of human IL-10 binding to IL-10R. For most successful immunofluorescent staining results, it may be important to maximize signal over background by using a relatively bright fluorochrome-antibody conjugate (Cat. No. 2144020) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated anti-rat IgG second step, followed by SAV-PE (Cat. No. 2626020).

Application References: 1. Kotenko S. 2002. *Cytokine Growth Factor Rev.* 13:223.
2. Trinchieri G. 2003. *Nat. Rev. Immunol.* 3:133.

Description: CD210, also known as the IL-10 receptor, is a 90-110 kD protein expressed on T cells, B cells, NK cells, monocytes and macrophages. CD210 belongs to the class II cytokine receptor family which includes the IFN- γ receptor (CDw119), the IFN- α/β receptor (CD118) and tissue factor (CD142). The IL-10 receptor is involved in signal transduction by inducing phosphorylation of STAT1a and STAT3 and by inducing activation of Jak1 and Tyk.

Antigen 1. Kotenko S. 2002. *Cytokine Growth Factor Rev.* 13:223.
References: 2. Trinchieri G. 2003. *Nat. Rev. Immunol.* 3:133.