

APC anti-human CD210 (IL-10 R)

Catalog # / Size: 2144055 / 25 tests
2144060 / 100 tests

Clone: 3F9

Isotype: Rat IgG2a, κ

Immunogen: shIL-10R

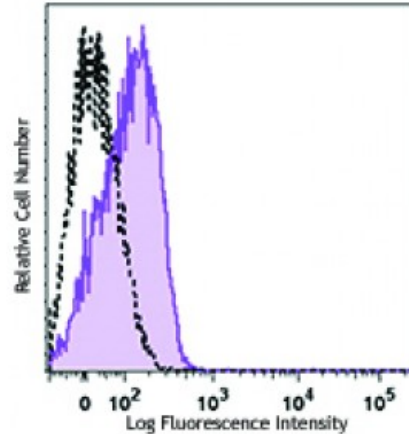
Reactivity: Human

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

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Workshop Number: VII 70502

Concentration: 0.5



Human peripheral blood lymphocytes were stained with CD210 (clone 3F9) APC (filled histogram) or rat IgG2a, κ APC 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 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.

Application Notes: Clone 3F9 recognizes the IL-10-binding epitope of IL-10R1.⁸ Additional reported applications (for the relevant formats) include: immunoprecipitation¹, *in vitro* blocking¹⁻³ of hIL-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. 308804) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated anti-rat IgG second step (Cat. No. 405402), followed by SAV-PE (Cat. No. 405204). The LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 308806). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 308810) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).

- Application References:**
1. Liu Y, *et al.* 1997. *J. Immunol.* 158:604. (Immunogen, IP, Block)
 2. Levings MK, *et al.* 2005. *Blood* 105:1162. (Block)
 3. Goodier MR, *et al.* 2000. *J. Immunol.* 165:139. (Block)
 4. Huang YH, *et al.* 2009. *J. Leukoc. Biol.* 86:273. [PubMed](#)
 5. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
 6. Liu BS, *et al.* 2011. *J Leukoc Biol.* 89:981. [PubMed](#)
 7. Joffe M, *et al.* 2012. *Int Immunol.* 24:447. [PubMed](#)
 8. MacDonald KP, *et al.* 1999. *J. Immunol.* 163:5599. (epitope)

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