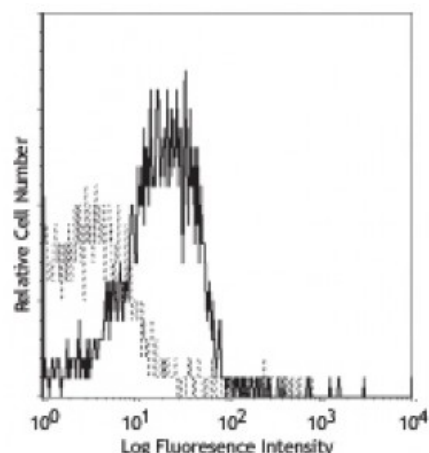


**Purified anti-human CD210 (IL-10 R)**

**Catalog # / Size:** 2144010 / 100 µg  
**Clone:** 3F9  
**Isotype:** Rat IgG2a, κ  
**Immunogen:** shIL-10R  
**Reactivity:** Human  
**Preparation:** The antibody was purified by affinity chromatography.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Workshop Number:** VII 70502  
**Concentration:** 0.5



Whole blood lymphocytes stained with purified 3F9, then detected with biotinylated anti-rat IgG followed by Sav-PE

**Applications:**

**Applications:** Other

**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 ≤2.0 microg per million cells in 100 microL volume. 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.<sup>8</sup> Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>1</sup>, *in vitro* blocking<sup>1-3</sup> 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-

$\alpha/\beta$  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.