![BioLegend logo] **BioLegend**
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Product Data Sheet

Purified anti-human CD210 (IL-10 R)

Catalog # / Size: 308802 / 100 µg

Clone: 3F9

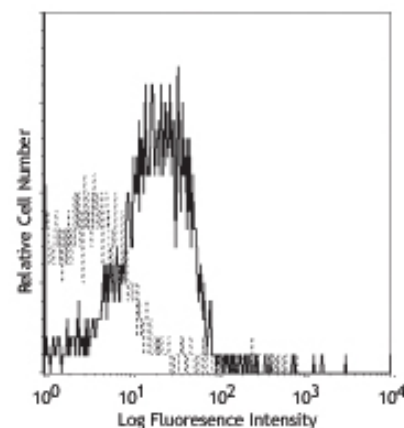**Isotype:** Rat IgG2a, κ

Workshop Number: VII 70502

Reactivity: Human, **Cross-Reactivity:** Cynomolgus, Rhesus

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: FC - *Quality tested*
IP - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation[1], *in vitro* blocking[1-3] 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/µg).

Application References:
1. Liu Y, *et al.* 1997. *J. Immunol.* 158:604.
2. Levings MK, *et al.* 2005. *Blood* 105:1162.
3. Goodier MR, *et al.* 2000. *J. Immunol.* 165:139.
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. Claassen MA, *et al.* 2012. *PLoS One.* 7:e49389. PubMed.

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

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.

Related Products:

Product	Clone	Application
Biotin Goat anti-rat IgG (minimal x-reactivity)	Poly4054	FC, ELISA, WB
PE Goat anti-rat IgG (minimal x-reactivity)	Poly4054	FC
PE Streptavidin		FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Purified Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICC, IF, IHC, IP, WB