SONY

Product Data Sheet

PE anti-human CD210 (IL-10 R)

Catalog # / Size: 2144020 / 100 tests
2144015 / 25 tests

Clone: 3F9

Isotype: Rat IgG2a, κ

Immunogen: shIL-10R

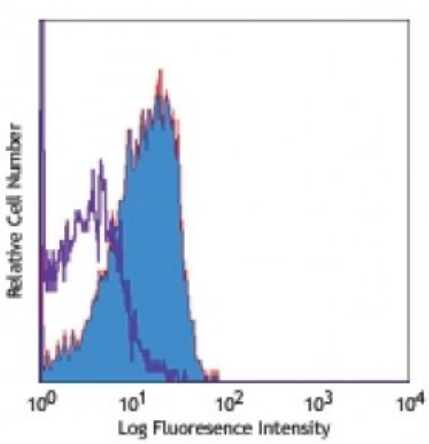
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE 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: Lot-specific



Human peripheral blood lymphocytes stained with 3F9 PE

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or 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* 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/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.