

Technical Data Sheet

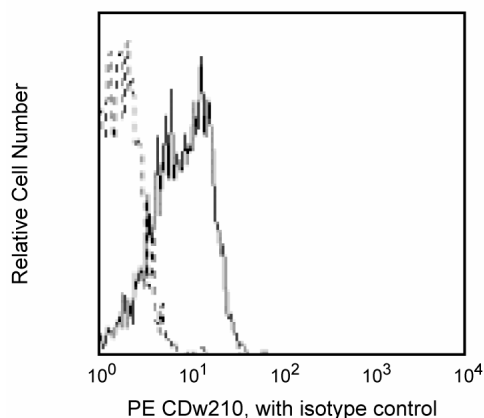
PE Rat Anti-Human CDw210

Product Information

Material Number:	556013
Alternate Name:	IL-10 receptor
Size:	100 tests
Vol. per Test:	20 µl
Clone:	3F9
Isotype:	Rat IgG2a, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with 90-110 kDa protein expressed on T cells, B cells, NK cells, and monocyte/macrophages. It belongs to the class II cytokine receptor family which includes IFN γ R (CDw119), IFN α /βR (CD118) and tissue factor (CD142). IL-10R has been found to play a role in signal transduction by activating specific STAT proteins (STAT3 and STAT1) and inducing gene transcription. Other reports indicate that IL-10 protein binding to NK cells appears to be stimulatory, in contrast to its binding to T cells and monocytes/macrophages. Clone 3F9 is specific for human IL-10R and its binding to the receptor can be blocked by recombinant human IL-10 (rhIL-10).



Profile of peripheral blood lymphocytes analyzed on a BD FACScan™ (BDIS, San Jose, CA)

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555844	PE Rat IgG2a, κ Isotype Control	100 tests	R35-95
554656	Stain Buffer (FBS)	500 ml	(none)
555899	Lysing Buffer	100 ml	(none)

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100-µl experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Callard R, Gearing A. Callard R, Gearing A. *The Cytokine Facts Book*. San Diego: Academic Press; 1994. (Biology)
Carson WE, Lindemann MJ, Baiocchi R, et al. The functional characterization of interleukin-10 receptor expression on human natural killer cells. *Blood*. 1995; 85(12):3577-3585. (Biology)
Liu Y, de Waal Malefyt R, Briere F, et al. The EBV IL-10 homologue is a selective agonist with impaired binding to the IL-10 receptor. *J Immunol*. 1997; 158(2):604-613. (Immunogen: Blocking, Flow cytometry, Functional assay, Immunoprecipitation, Inhibition)

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