

Technical Data Sheet

Purified NA/LE Rat Anti-Mouse CD210

Product Information

Material Number:	550012
Alternate Name:	IL-10 Receptor
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	1B1.3a
Immunogen:	Purified recombinant ligand-binding domain of mIL-10R
Isotype:	Rat IgG1, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 μ m sterile filtered. Endotoxin level is ≤ 0.01 EU/ μ g (≤ 0.001 ng/ μ g) of protein as determined by the LAL assay.

Description

The 1B1.3a antibody reacts with the extracellular region of mouse CD210 which is also known as the mouse IL-10 receptor (mIL-10R); it does not recognize the human IL-10R. The IL-10R is expressed by a variety of mouse cell types and cell lines including thymocytes, T cells, B cells, and monocytes. 1B1.3a is a neutralizing antibody and reportedly blocks the binding of human IL-10, which cross-reacts with the mouse IL-10R. The immunogen used for the generation of the 1B1.3a hybridoma was purified recombinant ligand-binding domain of mIL-10R.

Preparation and Storage

Store undiluted at 4°C.

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

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

Flow cytometry	Routinely Tested
Neutralization	Tested During Development

Neutralization Activity:

This antibody has been reported to be useful for the neutralization of the activity elicited by recombinant mouse IL-10. Neutralization activity may be measured with a proliferation assay with 1×10^5 cells/mL D36 indicator cells using 6 ng/mL recombinant mouse IL-10 (Cat. No. 550070) costimulated with 50 pg/mL recombinant mouse IL-4 (Cat. No. 550067) (i.e. preincubation of the antibody with the cells for 60 min)

50% Neutralization (ND50) at 0.1 – 1 ng/mL

$\geq 95\%$ Neutralization at ≥ 1 – 15 ng/mL

Suggested Companion Products

Catalog Number	Name	Size	Clone
554682	Purified NA/LE Rat IgG1 κ Isotype Control	0.5 mg	R3-34
550070	Recombinant Mouse IL-10	10 μ g	(none)
550067	Recombinant Mouse IL-4	10 μ g	(none)

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

O'Farrell AM, Liu Y, Moore KW, Mui AL. IL-10 inhibits macrophage activation and proliferation by distinct signaling mechanisms: evidence for Stat3-dependent and -independent pathways. *EMBO J.* 1998; 17(4):1006-1018. (Biology: Flow cytometry, Immunofluorescence)
 Schlaak JF, Schmitt E, Hüls C, Meyer zum Büschenfelde KH, Fleischer B. A sensitive and specific bioassay for the detection of human interleukin-10. *J Immunol Methods.* 1994; 168(1):49-54. (Biology)

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