

Technical Data Sheet

Purified NA/LE Rat Anti-Mouse CD121a

Product Information

Material Number:	553693
Alternate Name:	IL-1 Receptor, Type I/p80
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	35F5
Immunogen:	IL-1 receptors from the C57BL/6 mouse T lymphoma EL4.IL2
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 35F5 antibody reacts with the type-I interleukin (IL-1) receptor (CD121a) expressed by T-cell, fibroblast, and epithelial cell lines such as EL-4 and 3T3. Expression of the 35F5 epitope on normal mouse thymocytes and splenocytes is undetectable by flow cytometry. CD121a is an 80-kDa type-I transmembrane glycoprotein, a member of the Ig superfamily which mediates the inflammatory responses of leukocytes to IL-1. mAb 35F5 is capable of blocking the binding of IL-1 α , IL-1 β , and IL-1 receptor antagonist to the type-I IL-1 receptor. The 35F5 mAb is highly specific for the type-I IL-1 receptor and does not react with the type-II IL-1 receptor (CD121b) which is present on murine macrophage and B-cell lines and polymorphonuclear leukocytes (PMN) and PMN progenitors.

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
Blocking	Reported
Immunoprecipitation	Reported
Western blot	Reported

Recommended Assay Procedure:

Flow cytometry: Since this antigen may be expressed at low density on the cell surface, investigators may wish to perform staining using Biotin Goat Anti-Rat Ig (Cat. No. 554014) coupled with a "bright" third-step reagent, such as PE Streptavidin (Cat. No. 554061).

Western Blot: The 35F5 antibody has been reported to be useful for western blotting of non-reduced proteins and being non-reactive to reduced proteins.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554061	PE Streptavidin	0.5 mg	(none)
554014	Biotin Goat Anti-Rat Ig	0.5 mg	Polyclonal
553921	Purified NA/LE Rat IgG1, κ Isotype Control	0.5 mg	R3-34

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

Callard R, Gearing A. Callard R, Gearing A. *The Cytokine Facts Book*. San Diego: Academic Press; 1994. (Biology)
 Chizzonite R, Truitt T, Kilian PL, et al. Two high-affinity interleukin 1 receptors represent separate gene products. *Proc Natl Acad Sci U S A*. 1989; 86(20):8029-8033. (Immunogen: Immunoprecipitation)
 McIntyre KW, Stepan GJ, Kolinsky KD, et al. Inhibition of interleukin 1 (IL-1) binding and bioactivity in vitro and modulation of acute inflammation in vivo by IL-1 receptor antagonist and anti-IL-1 receptor monoclonal antibody. *J Exp Med*. 1991; 173(4):931-939. (Clone-specific: Blocking)
 Zola H. Detection of cytokine receptors by flow cytometry. In: Coligan JE, Kruisbeek AM, Margulies DH, Shevach EM, Strober W, ed. *Current Protocols in Immunology*. New York: Green Publishing Associates and Wiley-Interscience; 1995:6.21.1-6.21.18. (Methodology)

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