

Technical Data Sheet

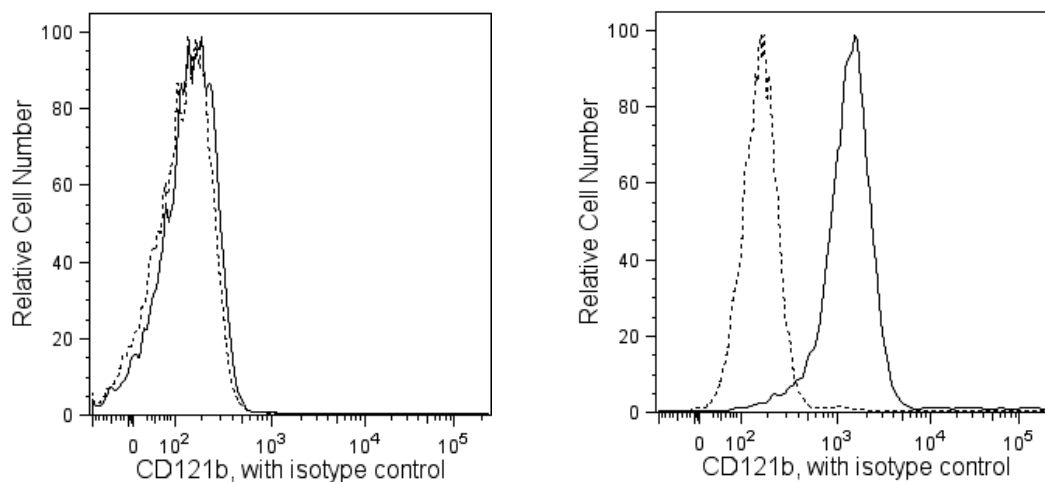
Purified Mouse Anti-Human CD121B

Product Information

Material Number:	552401
Alternate Name:	IL-1 Receptor Type II, IL-1 RII
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	MNC2
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

CD121b, also known as interleukin-1 receptor type II (IL-1RII), has a significant role in the inflammatory response. Interleukin-1 receptor type II acts as a decoy receptor to regulate prolonged persistence of IL-1 by binding to IL-1 and preventing the formation of signaling complexes. Membrane IL-1 type II receptor forms a 60 kDa soluble IL-1 receptor type II upon proteolytic cleavage from various cell types after activation with secondary, IL-1 induced cytokines. The soluble IL-1 type II receptor consists of 398 amino acids and 29 amino acids within a short cytoplasmic domain. The MNC2 monoclonal antibody reacts with recombinant and native soluble human IL-1 receptor type II.



Flow cytometric analysis for CD121b. Jurkat cells (Human T-cell leukemia; ATCC TIB-152) [Left Panel] or SR cells (Human lymphoblast; ATCC CRL-2262) [Right Panel] were stained either with a Mouse IgG1, κ isotype control (MN 555746) [dotted line] or with the Purified Mouse Anti-Human CD121b antibody (MN 552401) [solid line] in conjunction with a PE Goat Anti-Mouse Ig secondary antibody (MN 550589). Flow cytometry was performed on a BD FACSCalibur™ flow cytometry system.

Preparation and Storage

Store undiluted at 4°C.

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

Application Notes

Application

ELISA	Routinely Tested
Flow cytometry	Tested During Development

Suggested Companion Products

Catalog Number	Name	Size	Clone
550589	PE Goat Anti-Mouse Ig (Multiple Adsorption)	0.2 mg	Polyclonal
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
560747	Human Cell Surface Marker Screening Panel	5 Tests	(none)

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552401 Rev. 3



560281	Human Soluble CD121b (IL-1 RII) Flex Set	100 Tests	(none)
553441	Biotin Rat Anti-Mouse IgG1	0.5 mg	A85-1
554066	Streptavidin HRP	1 mL	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. 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.
4. An isotype control should be used at the same concentration as the antibody of interest.

References

Bessis N, Guéry L, Mantovani A, Vecchi A, Sims JE, Fradelizi D, Boissier MC. The type II decoy receptor of IL-1 inhibits murine collagen-induced arthritis. *Eur J Immunol.* 2000 March; 30(3):867-875. (Biology)

Neumann D, Kollewe C, Martin MU, Boraschi D. The membrane form of the type II IL-1 receptor accounts for inhibitory function. *J Immunol.* 2000 September; 165(6):3350-3357. (Biology)

Orlando S, Sironi M, Bianchi G, Drummond AH, Boraschi D, Yabes D, Mantovani A. Role of metalloproteases in the release of the IL-1 type II decoy receptor. *J Biol Chem.* 1997 December; 272(50):31764-31769. (Biology)

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552401 Rev. 3

