

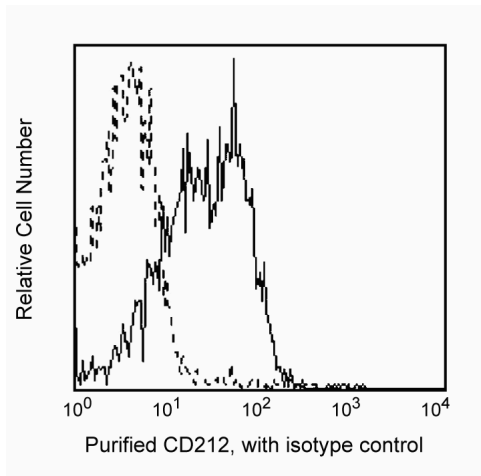
## Technical Data Sheet

**Purified Mouse Anti-Human CD212****Product Information**

<b>Material Number:</b>	<b>556064</b>
<b>Alternate Name:</b>	IL-12 receptor $\beta$ 1 subunit
<b>Size:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Clone:</b>	2.4E6
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Reactivity:</b>	QC Testing: Human
<b>Workshop:</b>	VII 70503
<b>Storage Buffer:</b>	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

**Description**

Reacts with IL-12R $\beta$ 1 subunit, one of two subunits of the IL-12R. IL-12R, expressed mainly on T cells or NK cells, is a member of the hemopoietin receptor superfamily and is related to gp130, granulocyte-colony stimulating factor (G-CSF) receptor and leukemia inhibitory factor (LIF). Reports indicate that together, subunits IL-12R $\beta$ 1 and IL-12R $\beta$ 2 bind IL-12 with high affinity. IL-12 is an immunomodulatory cytokine produced mainly by antigen-presenting cells (APC) and plays a role in promoting Th1-type responses and cell-mediated immunity. It stimulates proliferation of T cells and NK cells, enhances lytic activity of lymphokine-activated killer (LAK) cells and CTL.



*Profile of IL-12R $\beta$ 1 expressed on peripheral blood lymphocytes analyzed on a FACScan (BDIS, San Jose, CA).*

**Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4° C.

**Application Notes****Application**

Flow cytometry	Routinely Tested
----------------	------------------

**Suggested Companion Products**

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1, $\kappa$ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

**BD Biosciences**

www.bdbiosciences.com

United States 877.232.8995 Canada 888.259.0187 Europe 32.53.720.550 Japan 0120.8555.90 Asia Pacific 65.6861.0633 Latin America/Caribbean 55.11.5185.9995

For country-specific contact information, visit [www.bdbiosciences.com/how\\_to\\_order/](http://www.bdbiosciences.com/how_to_order/)

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2007 BD



## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/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.

## References

Mason D, Andre P, Bensussan A, ed. *Leukocyte Typing VII*. New York: Oxford University Press; 2002.(Clone-specific)

Chua AO, Chizzonite R, Desai BB, et al. Expression cloning of a human IL-12 receptor component. A new member of the cytokine receptor superfamily with strong homology to gp130. *J Immunol.* 1994; 153(1):128-136.(Biology)

Presky DH, Minetti LJ, Gillesen S, et al. Analysis of the multiple interactions between IL-12 and the high affinity IL-12 receptor complex. *J Immunol.* 1998; 160(5):2174-2179.(Biology)

Wu CY, Warrier RR, Carvajal DM, et al. Biological function and distribution of human interleukin-12 receptor beta chain. *Eur J Immunol.* 1996; 26(2):345-350. (Biology)