Technical Data Sheet

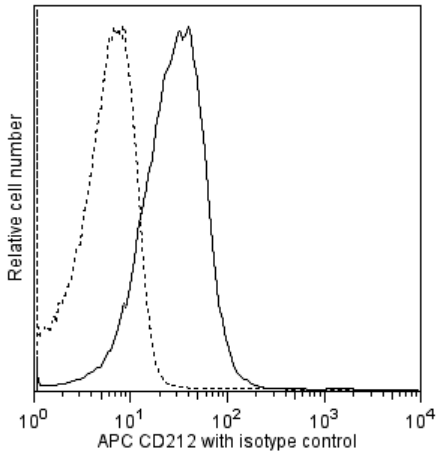
APC Mouse anti-Human CD212

Product Information

Material Number:	**558708**
Alternate Name:	IL-12R beta 1, IL-12 receptor β1 subunit
Size:	100 tests
Vol. per Test:	20 µl
Concentration:	Optimal
Clone:	2.4E6
Isotype:	Mouse IgG1, κ
Reactivity:	QC Tested: Human
Workshop:	VII 70503
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with IL-12Rβ1 subunit, one of two subunits of the IL-12Rβ. 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-12Rβ1 and IL-12Rβ2 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 human CD212 (IL-12 receptor β1) expression on stimulated peripheral blood lymphocytes. *Human blood cells were stimulated with CD3/CD28 for three days and then stained with APC-anti CD212 (solid line) or APC mouse IgG1 isotype control (dashed line, Cat. No. 554681). Flow cytometry was performed on a BD FACSCalibur™ flow cytometry system.*

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC were removed.
Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
554681	APC Mouse IgG1 κ Isotype Control	0.1 mg	MOPC-21

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. Please refer to 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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.268.5430	32.53.720.550	0120.8555.90	65.6861.0633	0800.771.7157

For country-specific contact information, visit **bdbiosciences.com/how_to_order/**

5. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

References

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. (Immunogen)

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

Presky DH, Minetti LJ, Gillessen 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)