

Technical Data Sheet

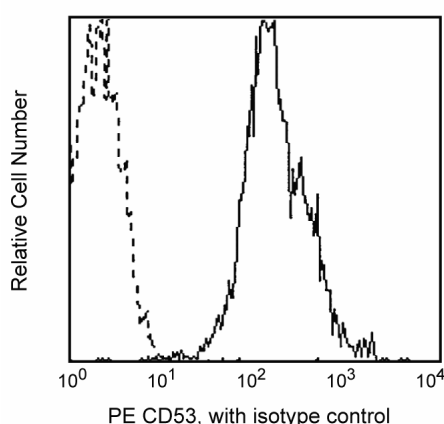
PE Mouse Anti-Human CD53

Product Information

Material Number:	555508
Size:	100 tests
Vol. per Test:	20 µl
Clone:	HI29
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	IV N18
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with the 35-42 kDa type II transmembrane glycoprotein expressed on all leukocytes, including plasma cells, but not on platelets, erythrocytes, and non-hematopoietic tissues. CD53 mediates signal transduction in monocytes and B cells. It has the broadest reactivity of all pan-leukocyte reagents used in immunohistology applications.



Profile of peripheral blood lymphocytes analyzed on a FACSscan (BDIS, San Jose, CA)

Preparation and Storage

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

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 tests	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. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

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5. 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.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Engel P, Wagner N, Zhou L, et al. CD86 Workshop Report. In: Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995. (Biology)

Knapp W, Dorken B, Rieber EP, et al, ed. *Leukocyte Typing IV*. New York: Oxford University Press; 1989:1-1208. (Clone-specific)

Olweus J, Lund-Johansen F, Horejsi V. CD53, a protein with four membrane-spanning domains, mediates signal transduction in human monocytes and B cells. *J Immunol*. 1993; 151(2):707-716. (Biology)