

Technical Data Sheet

Purified Mouse Anti-Human CD53

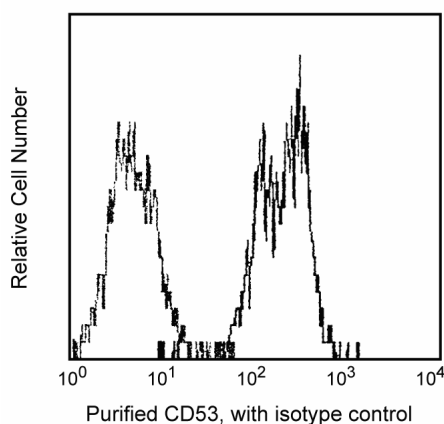
Product Information

Material Number:	555506
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	HI29
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	IV N18
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ 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.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



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. Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development

Suggested Companion Products

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

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmlngen/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

Knapp W, Dorken B, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989.(Clone-specific)
Engel P, Wagner N, Zhou L, et al. CD86 Workshop Report. In: Schlossman SF, Bournsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995.(Biology)
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)