Technical Data Sheet

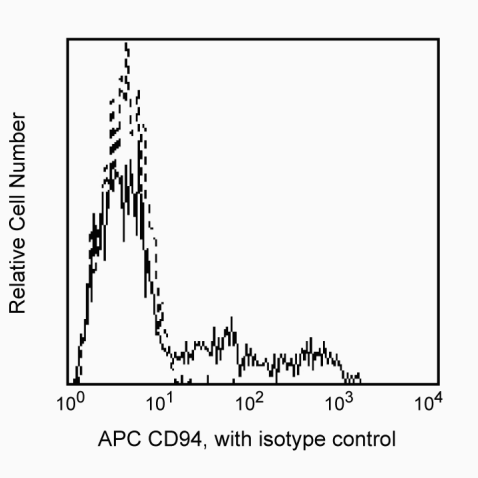
APC Mouse Anti-Human CD94

Product Information

Material Number:	**559876**
Size:	100 tests
Vol. per Test:	20 µl
Clone:	HP-3D9
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V NK82
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with a 70 kDa disulfide-linked dimer, also known as Kp43, expressed on natural killer (NK) cells. It is also expressed on γ/δ TCR+ T lymphocytes and on some CD8+CD56+ α/β TCR+ clones. Reports demonstrate that HP-3D9 markedly inhibits cytolytic activity of polyclonally-activated NK cells. CD94 (Kp43) plays a role in regulation of the function of NK cell activation and adhesion



Profile of peripheral blood lymphocytes analyzed by flow cytometry

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
555751	APC 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.

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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.
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

Aramburu J, Balboa MA, Ramírez A, et al. A novel functional cell surface dimer (Kp43) expressed by natural killer cells and T cell receptor-gamma/delta+ T lymphocytes. I. Inhibition of the IL-2-dependent proliferation by anti-Kp43 monoclonal antibody. *J Immunol.* 1990; 144(8):3238-3247.(Biology)

Balboa MA, Balsinde J, Aramburu J, Mollinedo F, López-Botet M. Phospholipase D activation in human natural killer cells through the Kp43 and CD16 surface antigens takes place by different mechanisms. Involvement of the phospholipase D pathway in tumor necrosis factor alpha synthesis. *J Exp Med.* 1992; 176(1):9-17.(Biology)

Pérez-Villar JJ, Melero I, Rodríguez A, et al. Functional ambivalence of the Kp43 (CD94) NK cell-associated surface antigen. *J Immunol.* 1995; 154(11):5779-5788.(Biology)