

Technical Data Sheet

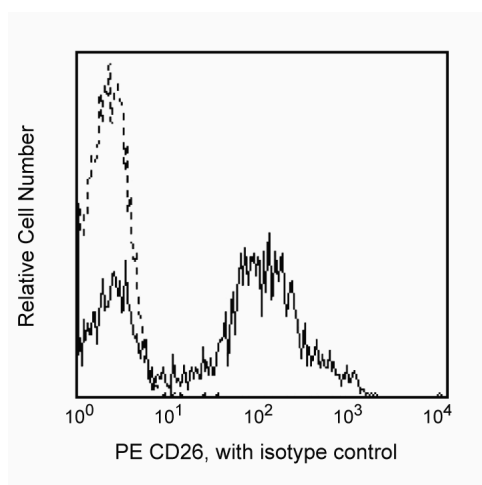
PE Mouse Anti-Human CD26

Product Information

Material Number:	555437
Alternate Name:	DPP IV; DPP4; ADABP; ADCP-2; TP103; Dipeptidyl peptidase IV
Size:	100 Tests
Vol. per Test:	20 µl
Clone:	M-A261
Immunogen:	Human T-CLL Cell Line
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V A062
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The M-A261 monoclonal antibody specifically binds to CD26. CD26 is also known as dipeptidyl peptidase IV (DPP4/DPP IV, DPP4) or adenosine deaminase binding protein (ADABP). CD26 is a 110 kDa type II transmembrane glycoprotein. CD26 is expressed by T lymphocytes and increases upon activation. It is also expressed by B cells, NK cells, and macrophages. CD26 is an ectoenzyme which plays an integral role in T-cell proliferation and may interact with extracellular matrix proteins such as fibronectin or collagen.



Flow cytometric analysis of CD26 expression on human peripheral blood lymphocytes. Human whole blood was stained with either PE Mouse Anti-Human CD26 (Cat. No. 555437; solid line histogram) or PE Mouse IgG1, κ Isotype Control (Cat. No. 555749; dashed line histogram). Erythrocytes were lysed with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899). Fluorescent histograms were derived from gated events with the side and forward light-scattering characteristics of viable lymphocytes. Flow cytometry was performed on a BD FAScan™ system.

Preparation and Storage

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

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.

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
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)
555899	Lysing Buffer	100 mL	(none)
349202	BD FACS™ Lysing Solution	100 mL	(none)

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555437 Rev. 13



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- μ l experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
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.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

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- Kameoka J, Tanaka T, Nojima Y, Schlossman SF, Morimoto C. Direct association of adenosine deaminase with a T cell activation antigen, CD26. *Science*. 1993; 261(5120):466-469. (Biology)
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- Scholz W, Mentlein R, Heymann E, Feller AC, Ulmer AJ, Flad HD. Interleukin 2 production by human T lymphocytes identified by antibodies to dipeptidyl peptidase IV. *Cell Immunol*. 1985; 93(1):199-211. (Biology)