

## Technical Data Sheet

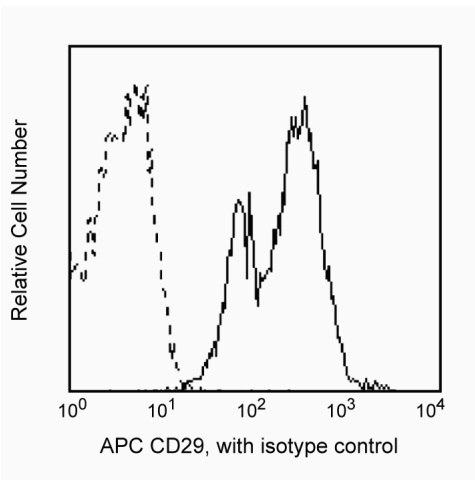
## APC Mouse Anti-Human CD29

## Product Information

<b>Material Number:</b>	559883
<b>Alternate Name:</b>	Integrin $\beta$ 1 Chain
<b>Size:</b>	100 tests
<b>Vol. per Test:</b>	20 $\mu$ l
<b>Clone:</b>	MAR4
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Reactivity:</b>	QC Testing: Human Tested in Development: Baboon, Rhesus, Cynomolgus.
<b>Workshop:</b>	VI A093
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA and $\leq 0.09\%$ sodium azide.

## Description

Reacts with the 130 kDa integrin  $\beta$ 1 subunit that is expressed as a heterodimeric complex with one of six distinct  $\alpha$  subunits, comprising the very late activation antigen (VLA) subfamily of adhesion receptors. The  $\beta$ 1 subunit has a broad tissue distribution; it is expressed on lymphocytes, monocytes and weakly on granulocytes, but not on erythrocytes. These receptors are involved in a variety of cell-cell and cell-matrix interactions.



Profile of peripheral blood lymphocytes analyzed by flow cytometry.

## 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 to APC under optimum conditions, and unconjugated antibody and free APC were removed.

## Application Notes

## Application

Flow cytometry	Routinely Tested
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## Suggested Companion Products

Catalog Number	Name	Size	Clone
555751	APC Mouse IgG1, $\kappa$ Isotype Control	100 tests	MOPC-21
554681	APC Mouse IgG1 $\kappa$ Isotype Control	0.1 mg	MOPC-21
554656	Stain Buffer (FBS)	500 ml	(none)

## Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use  $1 \times 10^6$  cells in a 100- $\mu$ l 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](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.

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4. 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.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
6. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.

## References

Hemler ME. VLA proteins in the integrin family: structures, functions, and their role on leukocytes. *Annu Rev Immunol.* 1990; 8:365-400. (Biology)

Hynes RO. Integrins: versatility, modulation, and signaling in cell adhesion. *Cell.* 1992; 69(1):11-25. (Biology)

Kishimoto T, von dem Borne AEG, Goyert SM, et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens*. London: Garland Publishing; 1997. (Clone-specific)