

## Technical Data Sheet

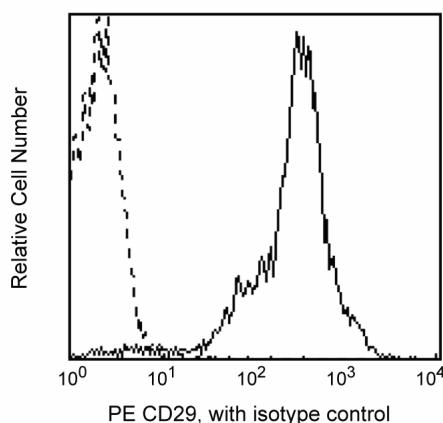
## PE Mouse Anti-Human CD29

## Product Information

Material Number:	557332
Alternate Name:	Integrin $\beta$ 1 Chain
Size:	50 tests
Vol. per Test:	20 $\mu$ l
Clone:	MAR4
Isotype:	Mouse IgG1, $\kappa$
Reactivity:	Human
	QC Testing: Baboon, or Rhesus, or Cynomolgus.
Workshop:	VI A093
Storage Buffer:	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 CD29 reactivity on peripheral blood lymphocytes of baboon (*papio anubis*) 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 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
556650	PE Mouse IgG1, $\kappa$ Isotype Control	50 tests	MOPC-21

## 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.
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.

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

## References

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

(Clone-specific)

Reimann KA, Waite BC, Lee-Parritz DE, et al. Use of human leukocyte-specific monoclonal antibodies for clinically immunophenotyping lymphocytes of rhesus monkeys. *Cytometry*. 1994; 17(1):102-108. (Biology)

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