

Technical Data Sheet

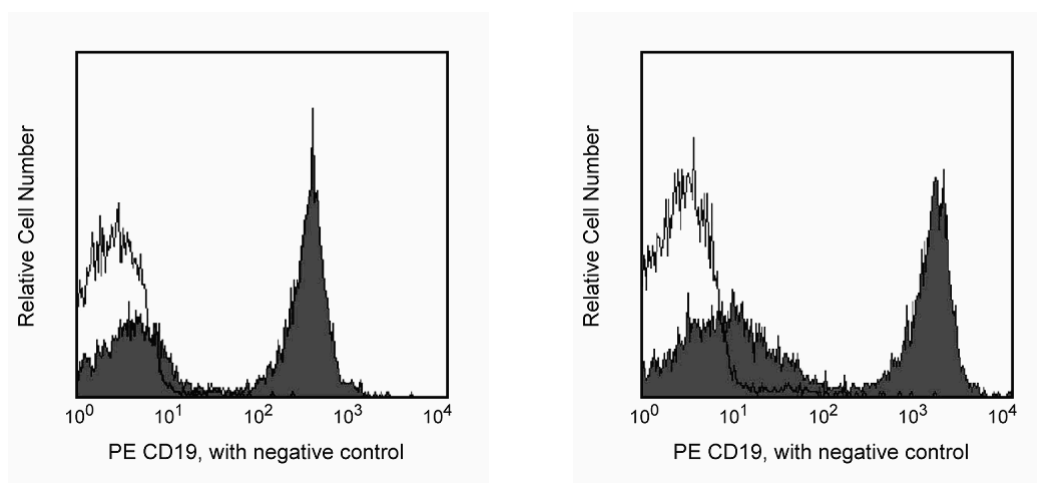
Biotin Mouse Anti-R-Phycoerythrin

Product Information

Material Number:	552603
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	E31-1459
Immunogen:	R-phycoerythrin
Isotype:	Mouse IgG1, κ
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The E31-1459 antibody reacts with R-Phycoerythrin (PE), a commonly used fluorochrome for flow cytometry, alone or as a tandem conjugate with other fluorochromes (eg, PE-Cy™7). The binding of the E31-1459 antibody to PE does not quench the fluorescence of the PE molecule. The use of biotinylated E31-1459 in a three-step staining procedure with Streptavidin-PE and a PE-conjugated primary antibody can specifically amplify the PE fluorescence.



Amplification of PE-conjugated anti-mouse CD19 staining of BALB/c mouse splenocytes. Mouse splenocytes were incubated with PE-conjugated anti-mouse CD19 mAb 1D3 (Cat. No. 557399/553786) alone or followed by biotinylated mAb E31-1459 and PE-conjugated Streptavidin (Cat. No. 554061, right panel). The overlaid histograms correspond to stained splenocytes (shaded histogram), unstained splenocytes (left panel, unshaded histogram), or splenocytes stained with biotinylated mAb E31-1459 and PE-conjugated Streptavidin (right panel, unshaded histogram). The signal-to-noise ratio of median fluorescence intensity (MFI) of the CD19+ population to the CD19- population in both panels (shaded histograms) is 87 for Panel A and 172 for right panel, demonstrating an approximate two-fold specific amplification of staining. Data shown is for gated lymphocytes based on light scatter. Flow cytometry was performed on a BD FACSCalibur™ flow cytometry system.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

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

Application Notes

Application

Flow cytometry

Routinely Tested

Recommended Assay Procedure:

For the amplification of PE fluorescence of PE-conjugated antibodies, it is recommended that biotinylated E31-1459 be used as a secondary antibody followed by PE-conjugated Streptavidin (Cat. No. 554061).

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Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
557399	PE Rat Anti-Mouse CD19	0.1 mg	1D3
554061	PE Streptavidin	0.5 mg	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Cy™ is a trademark of Amersham Biosciences Limited.
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.