

Technical Data Sheet

PE Mouse Anti-Mouse CD157

Product Information

Material Number:	552814
Alternate Name:	BP-3 Alloantigen
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	BP-3
Immunogen:	Mouse pre-B cell line
Isotype:	Mouse (<i>Mus spretus</i>) IgG2b, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The BP-3 antibody reacts with CD157, also known as the BP-3 alloantigen or Bone marrow Stromal cell antigen-1 (BST-1), found in a variety of common laboratory strains of mice (AKR, BALB/c, CBA/N, C3H/HeJ, C57BL/6, DBA/2, NZB, C.B-17, SJL and Swiss, but not A/J). CD157 is a differentially glycosylated GPI-linked cell-surface glycoprotein with a core protein of 32 kDa and differing patterns of glycosylation in different types of cells. It is a member, along with CD38, of a family of genetically-related ectoenzymes. The BP-3 alloantigen is expressed on the B lineage from the earliest detectable progenitors to circulating immature B lymphocytes, on immature thymocytes up to the expression of the T-cell receptor, on circulating neutrophils, peritoneal macrophages, on subpopulations of stromal cells in peripheral lymphoid organs (but not in bone marrow or thymus), on intestinal epithelial cells, and in the lumen of kidney-collecting tubules. The distribution of CD157 antigen on leukocytes and stromal cells of lymphoid organs suggests that it may be involved in leukocyte-stroma interactions which support the development, migration, and/or responses of leukocyte populations.

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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Recommended Assay Procedure:

For optimal staining of peripheral lymphoid tissue, we recommend the use of Mouse BD Fc Block™ (anti-mouse CD16/CD32 mAb 2.4G2, Cat. No. 553141/553142).

Suggested Companion Products

Catalog Number	Name	Size	Clone
553141	Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)	0.1 mg	2.4G2
559529	PE Mouse IgG2b, κ Isotype Control	0.1 mg	MPC-11

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. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
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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