Technical Data Sheet

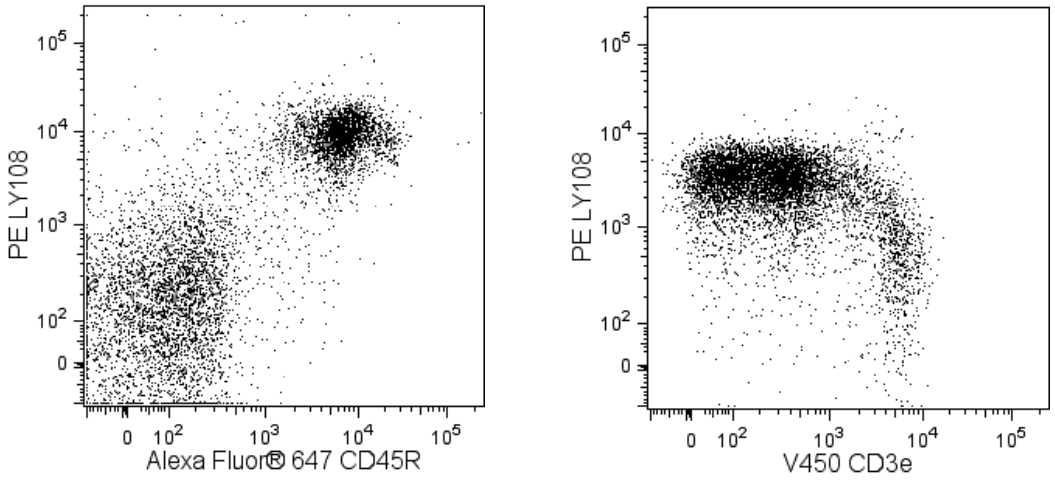
PE Mouse anti-Mouse Ly-108

Product Information

Material Number:	**561540**
Alternate Name:	Slamf6; SLAM family member 6; KAL1; NTB-A; SF2000
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	13G3
Immunogen:	WT thymocytes
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

Description

The 13G3 monoclonal antibody specifically binds to Lymphocyte antigen 108, Ly-108. Ly-108 is a member of the signaling lymphocytic activation molecule (SLAM) family of immune receptors. Ly-108 is a type 1 transmembrane glycoprotein adhesion receptor that is expressed by T cells, NKT cells, B cells, NK cells, macrophages, dendritic cells and neutrophils. Ly-108 plays multiple roles in innate and adaptive immunity including costimulation of NK cell cytotoxicity and T cell cytokine responses. Moreover, Ly-108 has been implicated in autoimmunity.



Multicolor flow cytometric analysis of Ly-108 expression on mouse bone marrow cells and thymocytes. *Mouse bone marrow cells and thymocytes were stained with PE Mouse anti-Mouse Ly-108, Alexa Fluor® 647 Rat Anti-Mouse CD45R/B220 (Cat. No. 557683) and BD Horizon™ V450 Hamster Anti-Mouse CD3e (Cat. No. 560801) antibodies. Two-color flow cytometric dot plots show the correlated expression of CD45R (bone marrow cells, Left Panel) or CD3 (thymocytes, Right Panel) versus Ly-108 for gated events with the forward and side light-scatter characteristics of viable lymphocytes. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.*

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.

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Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
554656	Stain Buffer (FBS)	500 ml	(none)
557683	Alexa Fluor® 647 Rat Anti-Mouse CD45R	0.1 mg	RA3-6B2
560801	V450 Hamster Anti-Mouse CD3e	0.1 mg	500A2

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
4. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Griewank K, C Borowski, Rietdijk S, et al. Homotypic interactions mediated by Slamf1 and Slamf6 receptors control NKT cell lineage development. *Immunity.* 2007; 27(5):751-762. (Clone-specific: Flow cytometry, Immunofluorescence)

Howie D, Laroux FS, Morra M, et al. Cutting edge: the SLAM family receptor Ly108 controls T cell and neutrophil functions. *J Immunol.* 2005; 10(174):5931-5935. (Biology)

Li W, Sofi MH, Rietdijk S, Wang N, et al. The SLAM-Associated Protein (SAP)/Fyn/PKCθ Pathway is Required for Thymocyte-mediated CD4 T Cell Development. *Immunity.* 2007; 27(2):763-774. (Biology)

Peck SR, Ruley HE. Ly108: a new member of the mouse CD2 family of cell surface proteins. *J Immunol.* 2000; 52(1-2):63-72. (Biology)