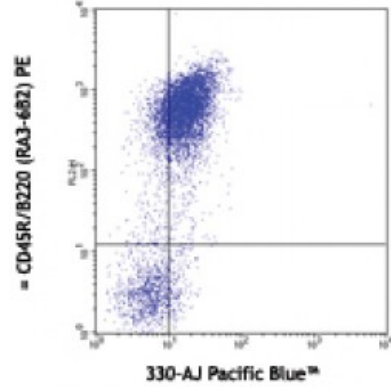


Pacific Blue™ anti-mouse Ly108

Catalog # / Size: 1273040 / 100 µg
Clone: 330-AJ
Isotype: Mouse IgG2a, κ
Immunogen: Thymocytes
Reactivity: Mouse
Preparation: The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5

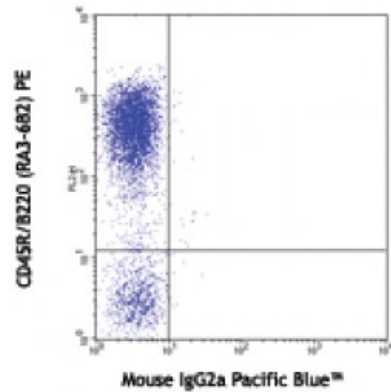


C57BL/6 splenocytes stained with 330-AJ Pacific Blue™ and CD45R/B220 (RA3-6B2) PE

Applications:

Applications: Flow Cytometry
Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 microg per 10⁶ cells in 100 microL volume or 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.



C57BL/6 splenocytes double stained with mouse IgG2a isotype control Pacific Blue™ and CD45R/B220 (RA3-6B2) PE

Description: Mouse Ly108, also known as SLAMF6 and NTB-A (NK cell, T cell, B cell antigen), is one of the members in The Signaling Lymphocytic Activation Molecule (SLAM) family of immune receptors. It is expressed on T cells, B cells, macrophages, dendritic cells, NK cells, and granulocytes. Homophilic interaction of Ly108 is involved in augmenting cytotoxicity of NK cells. Ly108 has been shown to function on NK cells by augmenting cytotoxicity. It was reported that Ly108 plays an important role in CD4⁺ T cell responses and innate immunity to bacteria and parasites. In a mouse with a targeted disruption of the Ly108 gene, CD4⁺ T cells and innate responses are defective. SLAM family of receptors has been implicated in the pathophysiology of autoimmunity. For instance, Ly108 is strongly linked to lupus susceptibility in mice. Ly108 may censor self-reactive B cells as a potential regulator of tolerance checkpoints, safeguarding against autoimmunity. Therefore, Ly108 serves as a regulator of both innate and adaptive immune

responses.

**Antigen
References:**

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3. Zhong MC, *et al.* 2008. *J. Biol. Chem.* 283 (28):19255
4. Peck SR *et al.*