

## Purified anti-mouse Ly108

**Catalog # / Size:** 134602 / 100 µg

**Clone:** 330-AJ

**Isotype:** Mouse IgG2a, κ

**Immunogen:** Thymocytes

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.

## Applications:

**Applications:** FC - *Quality tested*  
ELISA, IP - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**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<sup>+</sup> T cell responses and innate immunity to bacteria and parasites. In a mouse with a targeted disruption of the Ly108 gene, CD4<sup>+</sup> 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:**

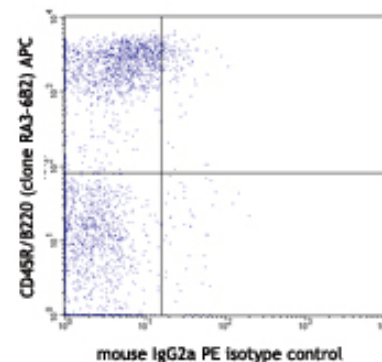
1. Howie D, *et al.* 2005. *J. Immunology*. 174 (10):5931
2. Kumar KR, *et al.* 2006. *Science*. 312(5780):1665
3. Zhong MC, *et al.* 2008. *J. Biol. Chem.* 283 (28):19255
4. Peck SR *et al.* 2000. *Immunogenetics*. 52:63

### Related Products:

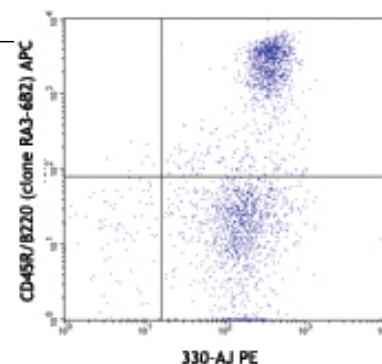
**Product**  
Purified Mouse IgG2a, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

**Clone**  
MG2a-53

**Application**  
FC, ICC, IF, IHC, IP, WB  
FC, ICC, ICFC  
FC, ICFC



*Balb/c mouse splenocytes double stained with 330-AJ PE (lower panel) or mouse IgG2a PE isotype control (upper panel) and anti-mouse CD45R/B220 (clone RA3-6B2) APC*



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