

PE anti-mouse CD244.2 (2B4 B6 Alloantigen)

Catalog # / Size: 133507 / 50 µg
133508 / 200 µg

Clone: m2B4 (B6)458.1

Isotype: Mouse IgG1, κ

Immunogen: m2B4-Fc

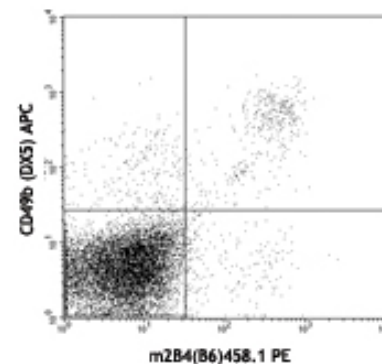
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

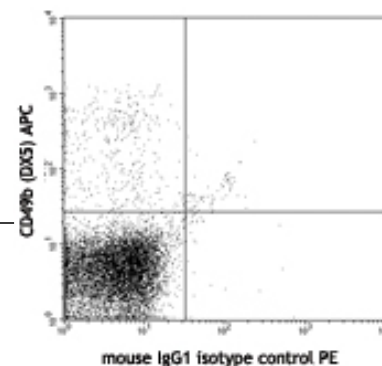
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



C57BL/6 splenocytes stained with m2B4(B6)458.1 PE (upper panel) or mouse IgG1 isotype control PE (lower panel) and anti-mouse CD49b (DX5) APC



Applications:

Applications: FC - Quality tested

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 ≤ 0.5 µg per 10⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application References:

1. Lee KM, *et al.* 2006. *Blood* Apr 15:107:3181.
2. Schatzle JD, *et al.* 1999. *P. Natl Acad Sci USA* 96:3870.
3. Stepp SE, *et al.* 1999. *Eur. J. Immunol.* 29:2392.
4. de la Luz Sierra M, *et al.* 2010. *Blood* 115:3970. PubMed

Description: Mouse CD244, also known as 2B4, is a receptor belonging to the CD2 family of proteins involved in non- MHC-restricted cytotoxicity. It is expressed on all natural killer (NK) cells, IL-2 activated NK (LAK) cells, NKT cells, and a subset of T lymphocytes, including dendritic epidermal T cells. At least there are two isoforms of CD244.2 proteins that differ in the length of the cytoplasmic domain. The long form functions in an inhibitory manner, while the short form functions in an activating manner. The ligand of CD244 is CD48, which expressed on all hematopoietic cells. It was reported that CD244 interacts with CD48 is essential for IL-2-driven expansion and activation of murine NK cells. The 2B4 antibody reacts with CD244.2, the 2B4 alloantigen which is expressed on C57BL/6 mice, but not on Balb/c mice.

Antigen References:

1. Brown MH, *et al.* 1998. *J. Exp. Med.* 188:2083.
2. Davis SJ, *et al.* 1996. *Immunol Today.* 17:177.
3. Kumaresan PR, *et al.* 2000. *Immunogenetics.* 51:306.
4. Latchman Y, *et al.* 1998. *J. Immunol.* 161:5809.

Related Products:

Product PE Mouse IgG1, κ Isotype Ctrl

Cell Staining Buffer

RBC Lysis Buffer (10X)

TruStain fcX™ (anti-mouse CD16/32)

Clone MOPC-21

93

Application

FC, ICFC
FC, ICC, ICFC
FC, ICFC
FC



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