

Product Data Sheet

Alexa Fluor® 647 anti-mouse CD244.2 (2B4 B6 Alloantigen)

Catalog # / Size: 133509 / 25 µg
133510 / 100 µg

Clone: m2B4 (B6)458.1

Isotype: Mouse IgG1, κ

Immunogen: m2B4-Fc

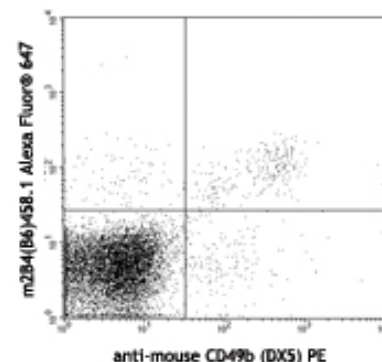
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

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 and protected from prolonged exposure to light. **Do not freeze.**



C57BL/6 splenocytes stained with m2B4(B6)458.1 Alexa Fluor® 647 (upper panel) or mouse IgG1 isotype control Alexa Fluor® 647 (lower panel) and anti-mouse CD49b (DX5) PE

Applications:

Applications: FC - Quality tested

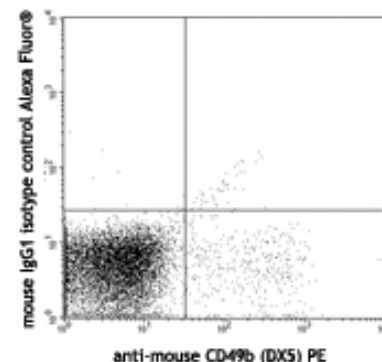
Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per 10⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal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

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

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
 Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (FC)
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 TruStain fcX™ (anti-mouse CD16/32)

Clone
 MOPC-21
 93

Application
 FC, IF
 FC, ICC, ICFC
 FC, ICFC
 FC



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