SONY

Product Data Sheet

APC/Fire™ 750 anti-mouse CD244.2 (2B4 B6 Alloantigen)

Catalog # / Size: 1267580 / 100 µg
1267575 / 25 µg

Clone: m2B4 (B6)458.1

Isotype: Mouse IgG1, κ

Immunogen: m2B4-Fc

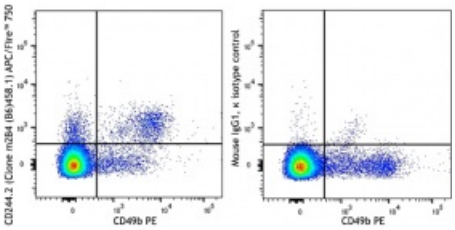
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

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

Workshop Number: 750 under optimal conditions.

Concentration: 0.2 mg/ml



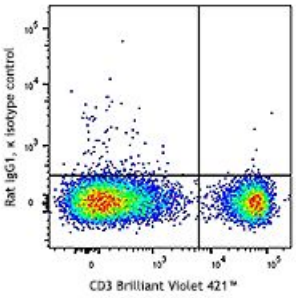
C57BL/6 splenocytes were stained with CD49b PE and CD244.2 (2B4 B6 Alloantigen) (clone m2B4 (B6)458.1) APC/Fire™ 750 (left) or mouse IgG1, κ APC/Fire™ 750 isotype control (right).

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

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.



C57BL/6 mouse bone marrow cells were stained with CD150 (SLAM) (clone TC15-12F12.2) APC/Fire™ 750 (filled histogram) or rat IgG2a, κ APC/Fire™ 750 isotype control (open histogram).

Application Notes: The 2B4 antibody reacts with CD244.2, the 2B4 allloantigen which is expressed on C57BL/6 mice, but not on BALB/c mice.

Application References:

1. Lee KM, *et al.* 2006. *Blood.* 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

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

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. There are at least 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 is expressed on all hematopoietic cells. It was reported that CD244 interaction with CD48 is essential for IL-2-driven expansion and activation of murine NK cells.

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.