

## Biotin anti-mouse CD244.2 (2B4 B6 Alloantigen)

**Catalog # / Size:** 133505 / 50 µg  
133506 / 200 µg

**Clone:** m2B4 (B6)458.1

**Isotype:** Mouse IgG1, κ

**Immunogen:** m2B4-Fc

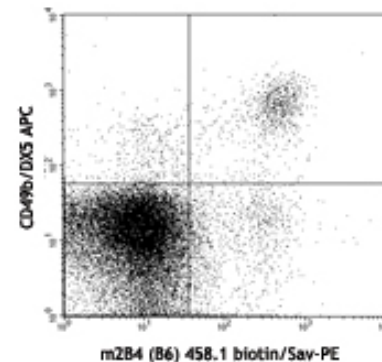
**Reactivity:** Mouse

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

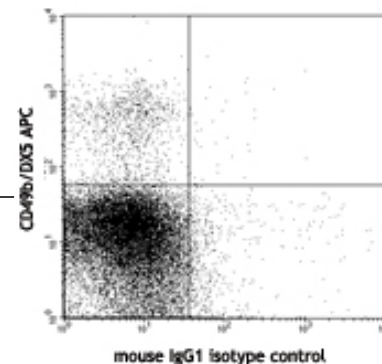
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**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 biotin (upper panel) or mouse IgG1 isotype control biotin (lower panel) followed by Sav-PE 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 ≤ 0.25 µg per 10<sup>6</sup> 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**  
 Biotin 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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