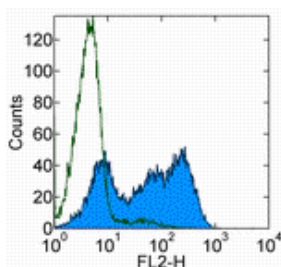


## Anti-Mouse CD244.2 (2B4) Purified

**Catalog Number:** 14-2441

**Also Known As:** B6 Alloantigen

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



C57BL/6 splenocytes were cultured for 6 days in Mouse IL-2 Recombinant Protein (cat. 14-8021) and subsequently stained with 0.125 ug of Anti-Mouse CD244.2 (2B4) Purified (filled histogram) or 0.125 ug of Rat IgG2a kappa Isotype Control Purified (cat 14-4321) (open histogram) followed by Anti-Rat IgG Biotin (cat 13-4813) and Streptavidin PE (cat. 12-4317).

### Product Information

**Contents:** Anti-Mouse CD244.2 (2B4) Purified

**REF** **Catalog Number:** 14-2441

**Clone:** eBio244F4

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Rat IgG2a

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



**Temperature Limitation:** Store at 2-8°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial



**Caution, contains Azide**

### Description

Mouse CD244, also known as 2B4, is a receptor belonging to the CD2 family of proteins involved in non-MHC dependent cytotoxicity. Expression is found on natural killer (NK) cells and many NKT cells and CD8+ cells. In C57BL/6 mice, two splice variants exist that differ in the length of the cytoplasmic domain. The long form functions in an inhibitory manner through signaling through SHP-2, while the short form functions in an activating manner. The ligand for CD244 is CD48 which is expressed on all hematopoietic cells. Recent data suggests that CD244 interactions with CD48, but not CD2 interaction with CD48, is essential for IL-2-driven expansion and activation of murine NK cells.

Reports show CD244 expression can discriminate hematopoietic progenitors. Hematopoietic stem cells (HSC) are highly purified as CD150+CD244-CD48- cells while non-self-renewing multipotent hematopoietic progenitors (MPP) are CD244+CD150-CD48- and the most restricted progenitors are CD48+CD244+CD150-.

eBio244F4 was generated against cell lines expressing CD244. It reacts with the C57BL/6 but not Balb/c due to polymorphisms present in the immunoglobulin V domain of the protein. The epitope recognized by eBio244F4 is different from that of 2B4; therefore these antibodies do not cross-block the binding to the respective epitopes.

### Applications Reported

This eBio244F4 antibody has been reported for use in flow cytometric analysis and immunoblotting (WB).

### Applications Tested

This eBio244F4 antibody has been tested by flow cytometric analysis of IL-2-stimulated mouse splenocytes. This can be used at less than or equal to 0.06 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

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**Related Products**

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4321 Rat IgG2a K Isotype Control Purified (eBR2a)

14-8021 Mouse IL-2 Recombinant Protein

17-4317 Streptavidin APC

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