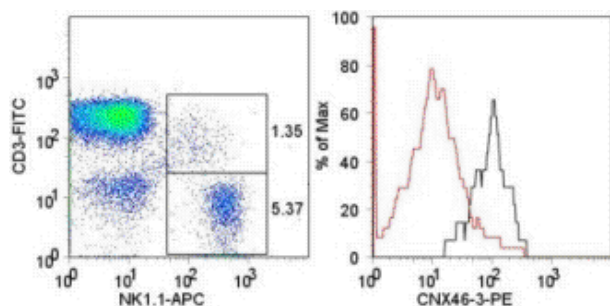


## Anti-Mouse CD160 PE

**Catalog Number:** 12-1601

**Also Known As:** BY55

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



Staining of C57BL/6 splenocytes with Anti-Mouse CD3 FITC (cat. 11-0031), Anti-Mouse NK1.1 APC (cat. 17-5941), and 0.5  $\mu$ g of Anti-Mouse CD160 PE. The histogram (right) demonstrates staining of CD160 on NK1.1+CD3<sup>-</sup> cells (red histogram) and NK1.1+CD3<sup>+</sup> cells (black histogram), as gated in the dot plot (left).

### Product Information

**Contents:** Anti-Mouse CD160 PE


**REF** **Catalog Number:** 12-1601

**Clone:** eBioCNX46-3 (CNX46-3)

**Concentration:** 0.2 mg/mL


**Host/Isotype:** Rat IgG2a, kappa

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

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

### Description

CD160 is a glycosylphosphatidylinositol (GPI)-anchored Ig-like glycoprotein first identified on human lymphocytes with the monoclonal antibody BY55. In mice, CD160 is expressed on almost all (intestinal intraepithelial lymphocytes) iIELs, NKT cells, most TCR $\gamma\delta$  T cells, few NK cells and a minor subset of CD8<sup>+</sup> T cells. Murine CD160 has been shown to bind to a wide range of classical and non classical MHC class I molecules and regulate NK cell activation. In vitro, CD3 activation of murine CD8<sup>+</sup> T cells increases the expression of CD160 and induces the release of soluble CD160 (sCD160). In human, CD160 mAb cross-linking triggers TNF alpha, IFN gamma and IL-6 cytokine production by peripheral blood NK cells and inhibits tube formation and induces apoptosis of endothelial cells. In mice, cross-linking of CD160 with the CNX46-3 antibody regulates NK cell activation both positively and negatively, depending on the stimulus.

### Applications Reported

This eBioCNX46-3 (CNX46-3) antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This eBioCNX46-3 (CNX46-3) antibody has been tested by flow cytometric analysis of C57BL/6 mouse splenocyte suspensions. This can be used at less than or equal to 1  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. 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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cell subset. J Immunol. 2004 Nov 1;173(9):5349-54.

Anumanthan A, Bensussan A, Boumsell L, Christ AD, Blumberg RS, Voss SD, Patel AT, Robertson MJ, Nadler LM, Freeman GJ. Cloning of BY55, a novel Ig superfamily member expressed on NK cells, CTL, and intestinal intraepithelial lymphocytes. J Immunol. 1998 Sep 15;161(6):2780-90.

**Related Products**

11-0031 Anti-Mouse CD3e FITC (145-2C11)

12-4321 Rat IgG2a K Isotype Control PE (eBR2a)

17-5941 Anti-Mouse NK1.1 APC (PK136)

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