

## Anti-Mouse CD160 Functional Grade Purified

Catalog Number: 16-1601

Also Known As: BY55

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

### Product Information

**Contents:** Anti-Mouse CD160 Functional Grade Purified

**REF** **Catalog Number:** 16-1601

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

**Concentration:** 1 mg/mL

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

**Handling Conditions:** Use in sterile environment.

**Endotoxin Level:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

**Formulation:** aqueous buffer, no sodium azide



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



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial

### 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+ 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+ 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, functional assays, immunoprecipitation, and immunoblotting (WB).

### 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  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

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Maeda M, Carpenito C, Russell RC, Dasanjh J, Veinotte LL, Ohta H, Yamamura T, Tan R, Takei F. Murine CD160, Ig-like receptor on NK cells and NKT cells, recognizes classical and nonclassical MHC class I and regulates NK cell activation. *J Immunol*. 2005 Oct 1;175(7):4426-32.(CNX46-3, FC, IP, WB, FA PubMed)

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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

11-4811 Anti-Rat IgG FITC

16-4321 Rat IgG2a K Isotype Control Functional Grade Purified (eBR2a)

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