

1P-750-T100

## Monoclonal Antibody to CD160 Phycoerythrin (PE) conjugated (100 tests)

<b>Clone:</b>	BY55
<b>Isotype:</b>	Mouse IgM
<b>Specificity:</b>	The mouse monoclonal antibody BY55 recognizes CD160, a 27 kDa glycoprotein expressed on NK cells, NK-T cells, intestinal intraepithelial lymphocytes, TCR-gamma/delta T cells and a small population of TCR-alpha/beta T cells. The antibody detects both GPI-anchored and transmembrane form of CD160.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Human NK cell line YT2C2
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing Tris buffered saline (TBS) solution containing 15 mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD160 is a cell surface glycoprotein of immunoglobulin superfamily, which functions as a costimulatory receptor expressed mainly on cytotoxic cell populations and recognizing both classical and non-classical MHC class I molecules. It can form disulfide-linked multimers. Down-modulation of CD160 occurs as a consequence of its proteolytic cleavage and the released soluble form was found to impair the MHC-class I specific cytotoxicity of CD8 <sup>+</sup> T lymphocytes and NK cells. In contrast to GPI-anchored isoform with broader expression among CD160 positive cells, expression of the transmembrane isoform is restricted to NK cells and is activation-dependent.

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**Antibodies**

- References:**
- \*Bensussan A, Gluckman E, el Marsafy S, Schiavon V, Mansur IG, Dausset J, Boumsell L, Carosella E: BY55 monoclonal antibody delineates within human cord blood and bone marrow lymphocytes distinct cell subsets mediating cytotoxic activity. *Proc Natl Acad Sci U S A.* 1994 Sep 13;91(19):9136-40.
  - \*Giustiniani J, Bensussan A, Marie-Cardine A: Identification and characterization of a transmembrane isoform of CD160 (CD160-TM), a unique activating receptor selectively expressed upon human NK cell activation. *J Immunol.* 2009 Jan 1;182(1):63-71.
  - \*Mazur H, Leca G, Mansur IG, Schiavon V, Boumsell L, Bensussan A: A novel 80-kD cell surface structure identifies human circulating lymphocytes with natural killer activity. *J Exp Med.* 1993 Sep 1;178(3):1121-6.
  - \*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.
  - \*Merino J, Ramírez N, Moreno C, Toledo E, Fernández M, Sánchez-Ibarrola A: BY55/CD160 cannot be considered a cytotoxic marker in cytomegalovirus-specific human CD8(+) T cells. *Clin Exp Immunol.* 2007 Jul;149(1):87-96.

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