

Datasheet for ABIN1981901
anti-CD160 antibody (PE)[Go to Product page](#)

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Overview

Quantity:	100 tests
Target:	CD160
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD160 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Human NK cell line YT2C2
Clone:	BY55
Isotype:	IgM kappa
Specificity:	The mouse monoclonal antibody BY55 recognizes an extracellular epitope of 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.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD160
Alternative Name:	CD160 (CD160 Products)
Background:	CD160 Molecule,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+ 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.,NK1, NK28
Gene ID:	11126
UniProt:	O95971

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	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.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	<p>Do not freeze. Avoid prolonged exposure to light.</p> <p>Do not use after expiration date stamped on vial label.</p> <p>Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.</p>

Handling

Storage: 4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

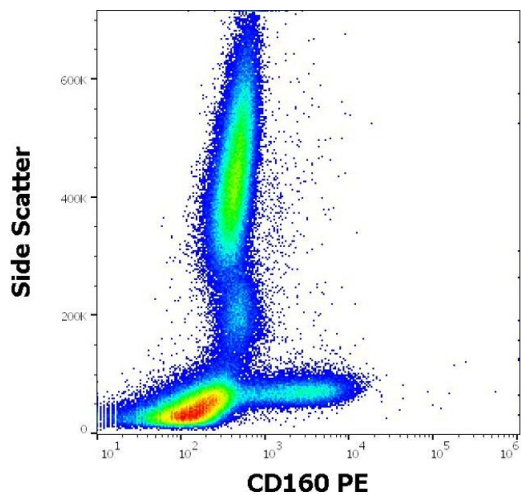
Publications

Product cited in: Giustiniani, Bensussan, Marie-Cardine: "Identification and characterization of a transmembrane isoform of CD160 (CD160-TM), a unique activating receptor selectively expressed upon human NK cell activation." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 182, Issue 1, pp. 63-71, (2008) ([PubMed](#)).

Merino, Ramírez, Moreno, Toledo, Fernández, Sánchez-Ibarrola: "BY55/CD160 cannot be considered a cytotoxic marker in cytomegalovirus-specific human CD8(+) T cells." in: **Clinical and experimental immunology**, Vol. 149, Issue 1, pp. 87-96, (2007) ([PubMed](#)).

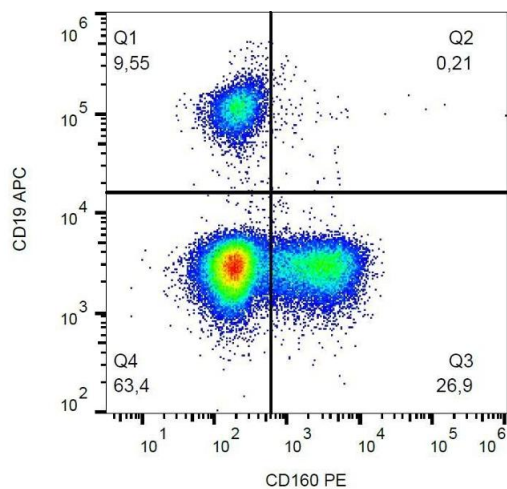
Anumanthan, Bensussan, Boumsell, Christ, Blumberg, Voss, Patel, Robertson, Nadler, Freeman: "Cloning of BY55, a novel Ig superfamily member expressed on NK cells, CTL, and intestinal intraepithelial lymphocytes." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 161, Issue 6, pp. 2780-90, (1998) ([PubMed](#)).

Bensussan, Gluckman, el Marsafy, Schiavon, Mansur, Dausset, Boumsell, Carosella: "BY55 monoclonal antibody delineates within human cord blood and bone marrow lymphocytes distinct cell subsets mediating cytotoxic activity." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 91, Issue 19, pp. 9136-40, (1994) ([PubMed](#)).



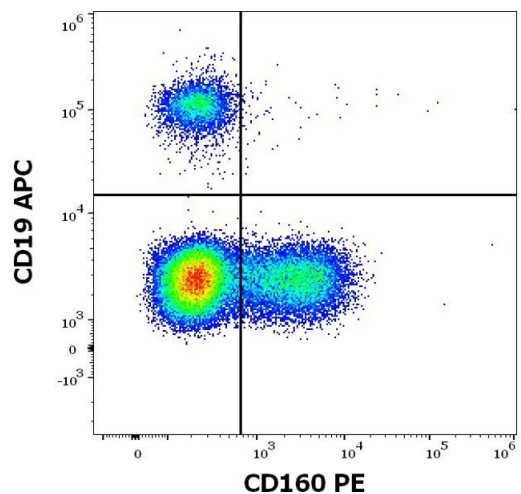
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD160 (BY55) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood).



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-CD160 (BY55) PE.



Flow Cytometry

Image 3. Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD160 (BY55) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood) and anti-human CD19 (LT19) APC antibody (10 μ L reagent / 100 μ L of peripheral whole blood).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1981901.