

Mouse anti-Human CD160 Antibody | anti-CD160 antibody

Anti-Hu CD160 FITC

CATALOG # AAA129371	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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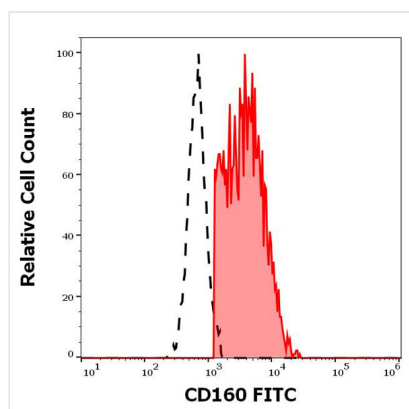
PRODUCT SYNONYMS

CD160; Anti-Hu CD160 FITC; CD160 molecule; NK1; NK28; anti-CD160 antibody

PRODUCT SPECIFICATIONS

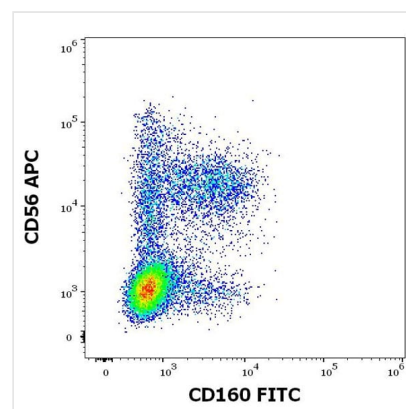
Host	Mouse
Reactivity	Human
Isotype	Mouse IgM kappa
Clone Number	BY55
Specificity	The mouse monoclonal antibody BY55 recognizes an extracellular epitope of CD160, a 27 kDa glycoprotein expressed on NK cells, NK-T cells, intestinal intraepithelial lymphocytes, TCR-gamma/delta T cells and a small population of TCR-alpha/beta T cells. The antibody detects both GPI-anchored and transmembrane form of CD160.
Purity/Purification	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Form/Format	Stabilizing Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Applicable Applications for anti-CD160 antibody	FCM/FACS (Flow Cytometry)
Immunogen	Human NK cell line YT2C2
Conjugation	FITC
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



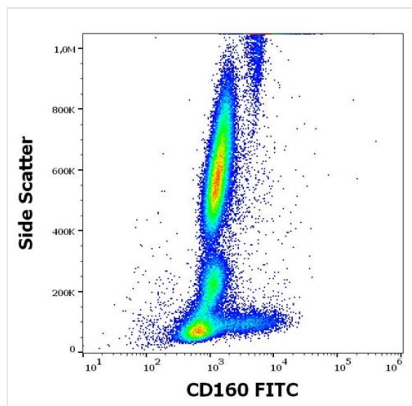
FCM/FACS (Flow Cytometry)

Separation of human CD160 positive CD56 positive lymphocytes (red-filled) from CD160 negative CD56 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD160 (BY55) FITC antibody (4ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD160 (BY55) FITC antibody (4ul reagent/100ul of peripheral whole blood) and anti-human CD56 (LT56) APC antibody (10ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)
Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD160 (BY55) FITC antibody (4ul reagent/100ul of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD160 antibody	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.
References	*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., URL: http://www.ncbi.nlm.nih.gov/pubmed/?term=merino+j+moreno+c+toledo+e ,*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., URL: https://pubmed.ncbi.nlm.nih.gov/9743336/,*Maiza 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., URL: http://www.ncbi.nlm.nih.gov/pubmed/7688788 ,*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., URL: http://www.ncbi.nlm.nih.gov/pubmed/19109136 ,*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., URL: http://www.ncbi.nlm.nih.gov/pubmed/8090781,

NCBI AND UNIPROT INFORMATION

NCBI GI #	5901910
NCBI GeneID	11126
NCBI Accession #	NP_008984.1
NCBI GenBank Nucleotide #	NM_007053.2
UniProt Accession #	O95971
Molecular Weight	19,810 Da
NCBI Official Full Name	CD160 antigen
NCBI Official Synonym Full Names	CD160 molecule
NCBI Official Symbol	CD160
NCBI Official Synonym Symbols	NK1; BY55; NK28

NCBI Protein Information	CD160 antigen; CD160-delta Ig; CD160 transmembrane isoform; natural killer cell receptor BY55; natural killer cell receptor, immunoglobulin superfamily member
UniProt Protein Name	CD160 antigen
UniProt Gene Name	CD160
UniProt Synonym Gene Names	BY55
UniProt Entry Name	BY55_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/cd160/129371>