

## Technical Data Sheet

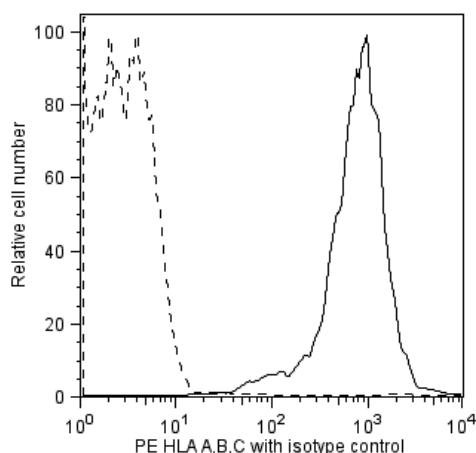
## PE Mouse anti-Human HLA-ABC

## Product Information

Material Number:	560168
Size:	100 tests
Vol. per Test:	20 µl
Clone:	DX17
Immunogen:	Polyclonal Human NK Cell Line
Isotype:	Mouse IgG1, κ
Reactivity:	QC testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

## Description

The DX17 monoclonal antibody reacts with a monomorphic epitope expressed on all HLA (human leukocyte antigen) class I molecules examined. DX17 immunoprecipitates HLA class I heavy chains (45 kDa) and β2-microglobulin (12kDa) from radiolabeled human cell lines. HLA is determined by a complex segment of the short arm of chromosome 6 and there are many human HLAs encoded in this segment. The antigenic agglomerate is called MHC, for major histocompatibility complex. Examples of class I loci are HLA-A, -B, and -C, which are serologically assayed; class II loci, e.g., HLA-D/DR and DC1, are tested by lymphocytotoxic methods.



*Flow cytometric analysis of PE anti-human HLA-A,B,C on lymphocytes. Whole blood was stained with PE anti-human HLA-A,B,C (clone DX17, Cat. No. 560168) and compared to whole blood stained with a PE mouse IgG1 isotype control (clone MOPC-21, Cat. No. 555749). The isotype control is represented by a dashed line and the PE anti-human HLA-A,B,C by the solid line. Flow cytometry was performed on a BD FACSCalibur™ System and the histograms were derived from the gated events based on light scattering characteristics of viable cells.*

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

## Application Notes

## Application

Flow cytometry	Routinely Tested
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## Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 tests	MOPC-21

## Product Notices

- This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use  $1 \times 10^6$  cells in a 100-µl experimental sample (a test).

## BD Biosciences

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2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

## References

Bach FH, Amos DB. Hu-1: Major histocompatibility locus in man. *Science*. 1967; 156(781):1506-1508. (Biology)

Gumperz JE, Litwin V, Phillips JH, Lanier LL, Parham P. The Bw4 public epitope of HLA-B molecules confers reactivity with natural killer cell clones that express NKB1, a putative HLA receptor. *J Exp Med*. 1995; 181(3):1133-1144. (Biology)

Lanier LL, Gumperz JE, Parham P, Melero I, López-Botet M, Phillips JH. The NKB1 and HP-3E4 NK cells receptors are structurally distinct glycoproteins and independently recognize polymorphic HLA-B and HLA-C molecules. *J Immunol*. 1995; 154(7):3320-3327. (Clone-specific)

Morton CC, Kirsch IR, Nance WE, Evans GA, Korman AJ, Strominger JL. Orientation of loci within the human major histocompatibility complex by chromosomal in situ hybridization. *Proc Natl Acad Sci U S A*. 1984; 81(9):2816-2820. (Biology)