Technical Data Sheet

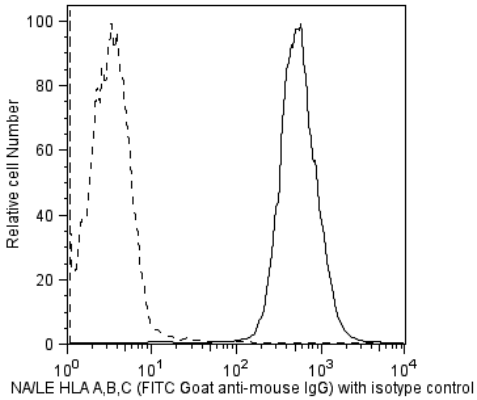
Purified NA/LE Mouse Anti-Human HLA-ABC

Product Information

Material Number:	**560187**
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	DX17
Immunogen:	Polyclonal Human NK Cell Line
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2μm sterile filtered. Endotoxin level is ≤0.01 EU/μg (≤0.001 ng/μg) of protein as determined by the LAL assay.

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.



Profile of human HLA-A,B,C, (DX17) reactivity on peripheral blood lymphocytes analyzed by flow cytometry (solid line) compared to isotype control (dashed line). Second step staining with Cat. No. 555988.

Preparation and Storage

Store undiluted at 4°C.

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

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

Flow cytometry	Routinely Tested
Blocking	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone
553447	Purified NA/LE Mouse IgG1 κ Isotype Control	0.5 mg	107.3
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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)

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.268.5430	32.53.720.550	0120.8555.90	65.6861.0633	0800.771.7157

For country-specific contact information, visit **bdbiosciences.com/how_to_order/**

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)