

Mouse anti-Human HLA ABC Monoclonal Antibody

Mouse Anti Human HLA ABC: Amethyst Orange

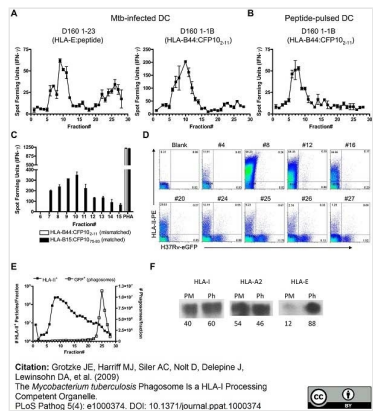
CATALOG # AAA50404	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

HLA ABC; Monoclonal Antibody; Mouse Anti Human HLA ABC: Amethyst Orange; HLA ABC antibody; W6/32; anti-HLA ABC antibody

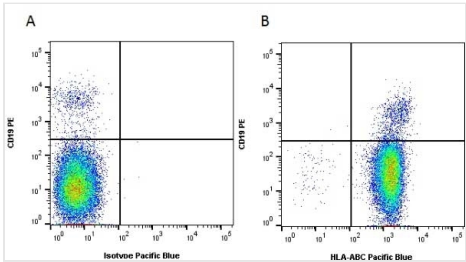
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	W6/32
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant.
Form/Format	Purified IgG conjugated to Amethyst Orange - Liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Applicable Applications for anti-HLA ABC antibody	FCM/FACS (Flow Cytometry)
Immunogen	Purified human tonsil lymphocyte membranes.
Buffer Solution	Phosphate Buffered Saline
Preservative Stabilizers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1/1-Ag4.1 myeloma cell line.
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. This product contains a precipitate we recommend microcentrifugation before use.



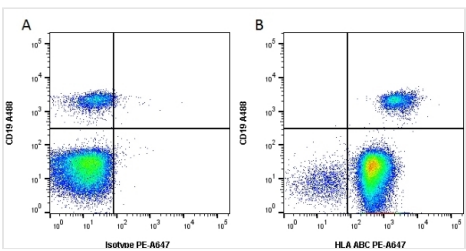
Application Data

Mouse anti Human HLA ABC antibody, clone W6/32 used to immunoprecipitate all MHC-1 complexes from phagosomal complexes. Image caption: HLA-E:peptide complexes are present in phagosomal fractions. (A,B) DC were pulsed with H37Rv-eGFP or CFP102–11 peptide and the homogenate was separated using 27% percoll as described. Each fraction was freeze-thawed and tested for its ability to stimulate D160 1-23 (A) or D160 1-1B (A&B) CD8+ T cell clones in the absence of additional APC. IFN- γ production was measured using ELISPOT. The mean $\pm$ SEM of duplicate wells is presented. Data are representative of four experiments at various timepoints in A, and four experiments after a one hour peptide pulse in B. (C) Plasma membrane/ER fractions from Mtb-infected DC (HLA-B15+/HLA-B44?) were incubated with HLA-I matched or mismatched CD8+ T cell clones and IFN- γ production was measured using ELISPOT. The mean $\pm$ SEM of duplicate wells is presented and data are representative of three experiments done similarly. (D,E) Individual fractions were analyzed by flow cytometry to assess HLA-II-PE (plasma membrane) and H37Rv-eGFP fluorescence. Selected fractions are shown (D) including the peak plasma membrane fraction (#8) and phagosomal fractions (#24–27). Prior to flow cytometry, fractions were mixed with a reference latex bead population at a known concentration. Equal numbers of latex bead events were collected for all fractions and used to quantify the number of plasma membrane and phagosome particles (E) as described in Materials and Methods. (F) HLA-I was immunoprecipitated from plasma membrane or phagosome fractions using W6/32. After dilution of the plasma membrane sample to give similar levels of HC10 staining, the presence of HLA alleles was assessed using antibodies to pan-HLA-I (HC10), HLA-A2 (HCA2), and HLA-E (MEM-E/02). The numbers below blots indicate the relative intensity of the bands as described in Materials and Methods. From: Grotzke JE, Harriff MJ, Siler AC, Nolt D, Delepine J, et al. (2009) The Mycobacterium tuberculosis Phagosome Is a HLA-I Processing Competent Organelle. PLoS Pathog 5(4): e1000374. This image is from an open access article distributed under the terms of the Creative Commons Attribution License.



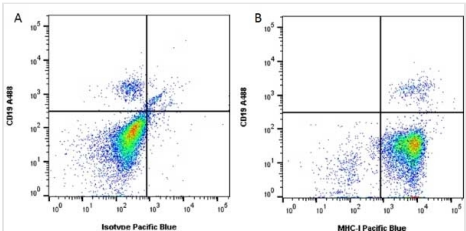
Application Data

Figure A. RPE conjugated Mouse anti Human CD19 and Pacific Blue conjugated Mouse IgG2a isotype control . Figure B. RPE conjugated Mouse anti Human CD19 and Pacific Blue conjugated Mouse anti Human HLA ABC . All experiments performed on red cell lysed human blood gated on lymphocytes in the presence of Human Seroblock . Data acquired on the ZE5 cell analyzer.



Application Data

Figure A. Alexa Fluor 488 conjugated Mouse anti Human CD19 and RPE-Alexa Fluor 647 conjugated Mouse IgG2a isotype control . Figure B. Alexa Fluor 488 conjugated Mouse anti Human CD19 and RPE-Alexa Fluor 647 conjugated Mouse anti Human HLA ABC . All experiments performed on red cell lysed human blood gated on lymphocytes in the presence of 10% human serum. Data acquired on the ZE5 Cell Analyzer.



Application Data

Figure A. Alexa Fluor 488 conjugated Mouse anti Human CD19 and Pacific Blue conjugated Mouse IgG1 isotype control . Figure B. FITC conjugated Mouse anti Human CD19 and Pacific Blue conjugated Mouse anti Human HLA ABC . All experiments performed on red cell lysed human blood gated on lymphocytes. Data acquired on the ZE5 cell analyzer.

ADDITIONAL INFORMATION

Related Product Information for anti-HLA ABC antibody	Mouse anti Human HLA ABC antibody, clone W6/32 recognizes an antigenic determinant shared among products of the HLA A, B and C loci. Clone W6/32 recognizes a conformational epitope, reacting with HLA class I alpha3 and alpha2 domains. The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In humans, this complex is referred to as the human leukocyte antigen (HLA) region. There are 3 major MHC class I proteins encoded by the HLA which are HLA A, HLA B and HLA C. These proteins are found on the surface of almost all nucleated somatic cells. Mouse anti Human HLA ABC antibody, clone W6/32 is routinely tested in flow cytometry on human peripheral blood lymphocytes.
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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/monoclonal/hla-abc-antibody-clone-w6-32-flow-cytometry-elisa/50404>