

HLA-B7 Monoclonal Antibody (BB7.1), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	BB7.1
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 nm
Immunogen	Papain solubilized HLA-B7
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2802259

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	-

Product Specific Information

Description: This BB7.1 monoclonal antibody recognizes the human major histocompatibility complex MHC class I molecule HLA-B7, which is a member of the HLA-B family. MHC class I exists as a heterodimer composed of a specific alpha chain associated with a beta 2-microglobulin. MHC class I molecules are expressed on all nucleated cells.

Applications Reported: This BB7.1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This BB7.1 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test.

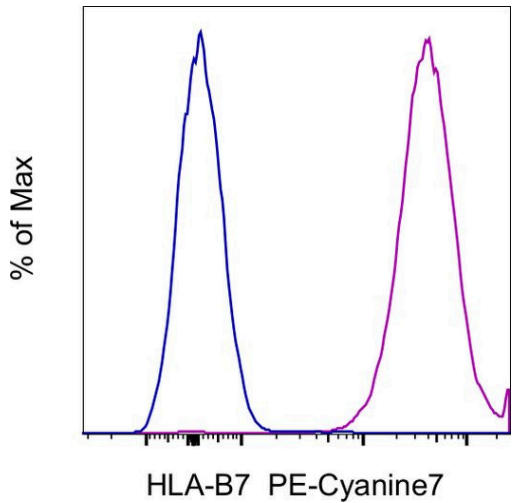
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be

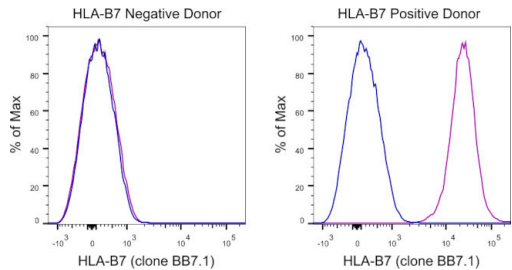
made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser

Product Images For HLA-B7 Monoclonal Antibody (BB7.1), PE-Cyanine7, eBioscience™



HLA-B7 Antibody (25-5917-42) in Flow
Normal human peripheral blood cells from a HLA-B7 positive donor were stained with Mouse IgG1 kappa Isotype Control, PE-Cyanine7 (Product # 25-4714-80) (blue histogram) or HLA-B7 Monoclonal Antibody, PE-Cyanine7 (purple histogram). Cells in the lymphocyte gate were used for analysis.



HLA-B7 Antibody (25-5917-42)
Surface staining of human peripheral blood cells from two different HLA typed donors. As expected, HLA-B7 clone BB7.1 stains all nucleated cells from the HLA-B7 positive donor (right panel) and does not stain cells from an HLA-B7 negative donor (left panel). Details: Normal human peripheral blood cells were surface stained with mouse IgG1 kappa Isotype control (blue histogram) or HLA-B7 (clone BB7.1) (purple histogram). Nucleated cells were used for analysis. {RE}

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