HLA-A3 Monoclonal Antibody (GAP.A3), Super Bright™ 600, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	GAP.A3
Conjugate	Super Bright™ 600
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744856

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	1 Publication

Product Specific Information

Description: The monoclonal antibody GAP.A3 reacts with the human major histocompatibility complex (MHC) class I molecule HLA-A3, which is a member of the HLA-A family. HLA-A3 exists as two subtypes, HLA-A3.1 and HLA-A3.2, which differ at amino acid positions 152 and 156. MHC class I molecules are expressed on all nucleated cells. These molecules are highly polymorphic, cell surface glycoproteins that non-covalently associate with B2 microglobulin. MHC Class I molecules present intracellular peptides on the cell surface and nonnative peptides are recognized by circulating cytotoxic T lymphocytes. HLA-A3 is expressed by 15-25% of cancer patients and has been demonstrated to bind the tumor-associated antigen human telomerase reverse transcriptase (hTERT).

Applications Reported: This GAP.A3 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This GAP.A3 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can 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 10^5 to 10^8 cells/test.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for

Super Bright Staining Buffer for more information.

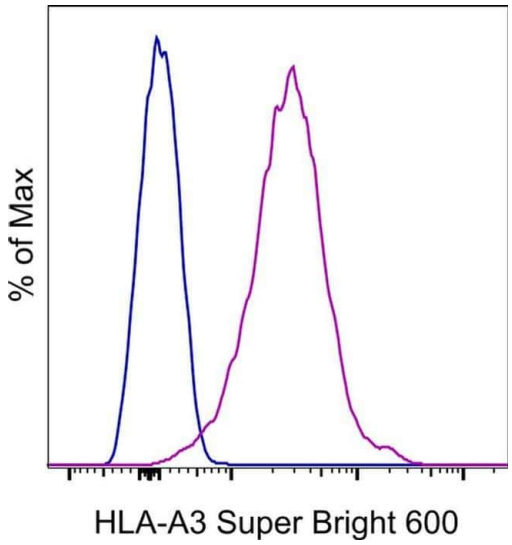
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) 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: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For HLA-A3 Monoclonal Antibody (GAP.A3), Super Bright™ 600, eBioscience™



HLA-A3 Antibody (63-5754-42) in Flow
Normal human peripheral blood cells were stained with Mouse IgG2a K Isotype Control, Super Bright 600 (Product # 63-4724-82) (blue histogram) or HLA-A3 Monoclonal Antibody, Super Bright 600 (purple histogram). Cells in the lymphocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Cell reports

Human intestinal tissue-resident memory T cells comprise transcriptionally and functionally distinct subsets.

"Published figure using HLA-A3 monoclonal antibody (Product # 63-5754-42) in Flow Cytometry"

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