

# HLA-A3 Monoclonal Antibody (GAP.A3), Super Bright™ 436, 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™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	GAP.A3
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
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_2802413

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (1.0 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).<sup>^M</sup>

Applications Reported: This GAP.A3 antibody has been reported for use in flow cytometric analysis.<sup>^M</sup>

Applications Tested: This GAP.A3 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (1.0 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<sup>^5</sup> to 10<sup>^8</sup> cells /test.<sup>^M</sup>

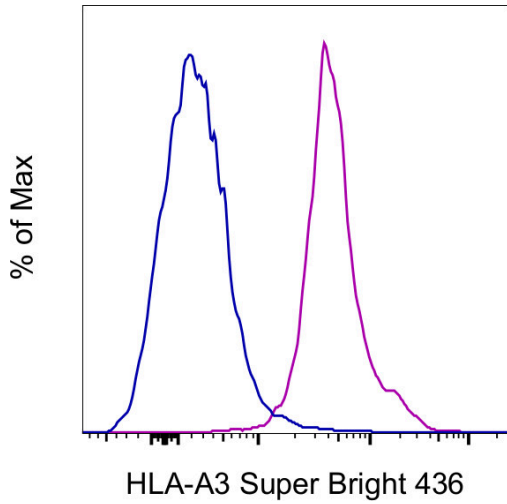
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.<sup>^M</sup>

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.<sup>^M</sup>

^M  
Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser^M

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

## Product Images For HLA-A3 Monoclonal Antibody (GAP.A3), Super Bright™ 436, eBioscience™



### HLA-A3 Antibody (62-5754-42) in Flow

Normal human peripheral blood cells were stained with Mouse IgG2a kappa Isotype Control, Super Bright 436 (Product # 62-4724-82) (blue histogram) or HLA-A3 Monoclonal Antibody, Super Bright 436 (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 # 62-5754-42) in Flow Cytometry"

Authors: FitzPatrick MEB, Provine NM, Garner LC, Powell K, Amini A, Irwin SL, Ferry H, Ambrose T, Friend P, Vrakas G, Reddy S, Soilleux E, Klenerman P, Allan PJ

Year  
2021

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