

IgD Monoclonal Antibody (IA6-2), Super Bright™ 780, eBioscience™

Product Details	
Size	25 Tests
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IA6-2
Conjugate	Super Bright™ 780
Excitation/Emission Max	413/780 nm
Form	Liquid
Concentration	5 µL/Test
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744924

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	1 Publication

Product Specific Information

Description: This IA6-2 monoclonal antibody reacts with the heavy chain of human immunoglobulin D (IgD). This type I transmembrane protein is co-expressed on the surface of mature naive B cells with membrane IgM. IgD also exists as a soluble form in blood serum. Studies have demonstrated that IgD associates with the B cell receptor and participates in mediating signal transduction upon antigen binding.

Applications Reported: This IA6-2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This IA6-2 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.25 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.

Super Bright 780 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 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.

In some experiments, we have observed that compensation values for Super Bright 780-conjugated antibodies are higher in the violet 450/50 channel when using UltraComp eBeads microspheres (Product # 01-2222-42) as compared to single-color stained cells. In such circumstances, we would recommend setting compensation with cells. We have also observed this in some experiments using AbC Total Antibody Compensation beads (Product # A10497).

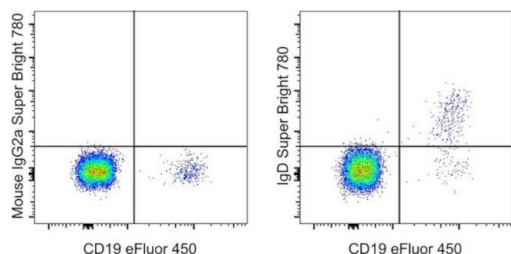
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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: 780 nm; Laser: Violet Laser

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

Product Images For IgD Monoclonal Antibody (IA6-2), Super Bright™ 780, eBioscience™



IgD Antibody (78-9868-41) in Flow

Normal human peripheral blood cells were stained with CD19 Monoclonal Antibody, eFluor 450 (Product # 48-0199-42) and Mouse IgG2a kappa Isotype Control, Super Bright 780 (left) or IgD Monoclonal Antibody, Super Bright 780 (right). Cells in the lymphocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Frontiers in immunology

Th2 Biased Immunity With Altered B Cell Profiles in Circulation of Patients With Sporotrichosis Caused by *Sporothrix globosa*.

"Published figure using IgD monoclonal antibody (Product # 78-9868-42) in Flow Cytometry"

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Year
2021

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