

IgD Monoclonal Antibody (IA6-2), Super Bright™ 702, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IA6-2
Conjugate	Super Bright™ 702
Excitation/Emission Max	413/702 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_2717185

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	2 Publications

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 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 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.

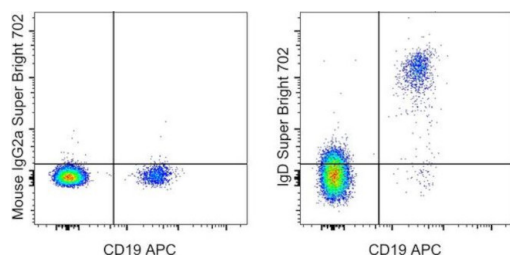
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L 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: 702 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™ 702, eBioscience™



IgD Antibody (67-9868-42) in Flow

Normal human peripheral blood cells were stained with CD19 Monoclonal Antibody, APC (Product # 17-0198-42) and Mouse IgG2a kappa Isotype Control, Super Bright 702 (Product # 67-4724-82) (left) or IgD Monoclonal Antibody, Super Bright 702 (right). Cells in the lymphocyte gate were used for analysis.

2 References

Flow Cytometry (2)

Nature

SARS-CoV-2 infection induces long-lived bone marrow plasma cells in humans.

"67-9868-42 was used in Flow Cytometry to indicate that mild infection with SARS-CoV-2 induces robust antigen-specific, long-lived humoral immune memory in humans."

Authors: Turner JS, Kim W, Kalaidina E, Goss CW, Rauseo AM, Schmitz AJ, Hansen L, Haile A, Klebert MK, Pusic I, O'Halloran JA, Presti RM, Ellebedy AH

Year
2021

Species
Human

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 # 67-9868-42) in Flow Cytometry"

Authors: Zu J, Yao L, Song Y, Cui Y, Guan M, Chen R, Zhen Y, Li S

Year
2021

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