

# IgM Monoclonal Antibody (SA-DA4), Brilliant Ultra Violet™ 737, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Brilliant Ultra Violet™ 737, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SA-DA4
Conjugate	Brilliant Ultra Violet™ 737
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_2896063

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

## Product Specific Information

Description: The SA-DA4 monoclonal antibody reacts with the mu heavy chain of human IgM. It does not react with other classes of human immunoglobulin including IgD, IgG, or IgA. IgM is expressed intracellularly, during early stages of B lymphopoiesis, and then on the surface of mature B cells.

Our testing has revealed variations in staining of the non-B cell population that is predicted to be non-specific. This variation can be attributed to both donor variability and the anticoagulant used during blood draw. Therefore, we recommend using sodium citrate as the anticoagulant to minimize non-specific staining by this antibody.

Applications Reported: This SA-DA4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This SA-DA4 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Brilliant Ultra Violet™ 737 (BUV737) is a tandem dye that emits at 732 nm and is intended for use on cytometers equipped with an ultraviolet (355 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) or Brilliant Stain Buffer

(Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

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

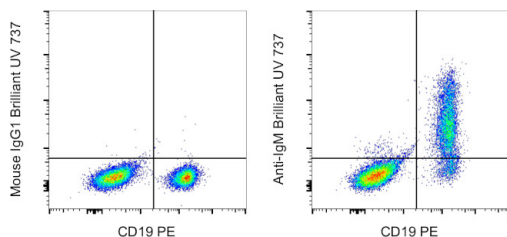
**Fixation:** Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Our internal testing suggests that Brilliant Ultra Violet™ 737 (BUV737) is compatible with short-term methanol-based fixation, but should not be stored in buffers containing methanol for longer than one hour.

**Excitation:** 355 nm; **Emission:** 732 nm; **Laser:** Ultraviolet Laser.

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## Product Images For IgM Monoclonal Antibody (SA-DA4), Brilliant Ultra Violet™ 737, eBioscience™



### IgM Antibody (367-9998-41) in Flow

Normal human peripheral blood cells were stained with CD19 Monoclonal Antibody, PE (Product # 12-0199-42) and Mouse IgG1 kappa Isotype Control, Brilliant Ultra Violet 737 (BUV737) (Product # 367-4714-81) (left) or IgM Monoclonal Antibody, Brilliant Ultra Violet 737 (BUV737) (right). Cells in the lymphocyte gate were used for analysis.

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