

# CD45.1 Monoclonal Antibody (A20), Brilliant Ultra Violet™ 805, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Brilliant Ultra Violet™ 805, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	A20
Conjugate	Brilliant Ultra Violet™ 805
Excitation/Emission Max	349/804 nm
Form	Liquid
Concentration	0.2 mg/mL
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_2896115

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

## Product Specific Information

**Description:** The A20 monoclonal antibody reacts with the mouse CD45 molecule, the leukocyte common antigen (LCA) in CD45.1-expressing mouse strains. The strains that express CD45.1 include SJL/J, DA, STS/A and RIII. CD45.1 is expressed by all leukocytes in these strains.

**Applications Reported:** This A20 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This A20 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Brilliant Ultra Violet™ 805 (BUV805) is a tandem dye that emits at 797 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.

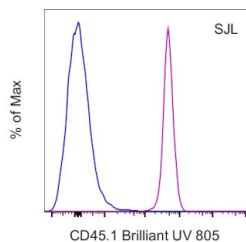
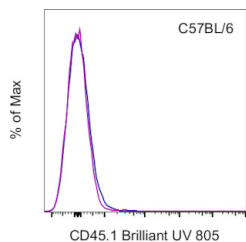
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations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

Our internal testing suggests that Brilliant Ultra Violet™ 805 (BUV805) 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: 797 nm; Laser: Ultraviolet Laser.

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## Product Images For CD45.1 Monoclonal Antibody (A20), Brilliant Ultra Violet™ 805, eBioscience™



### CD45.1 Antibody (368-0453-80) in Flow

C57BL/6 (left) or SJL (right) mouse splenocytes were stained with 0.25  $\mu$ g of Mouse IgG2a kappa Isotype Control, Brilliant Ultra Violet 805 (BUV805) (Product # 368-4724-81) (blue histogram) or 0.25  $\mu$ g of CD45.1 Monoclonal Antibody, Brilliant Ultra Violet 805 (BUV805) (purple histogram). Viable cells in the lymphocyte gate were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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