

# CD45.1 Monoclonal Antibody (A20), Brilliant Violet™ 650, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	A20
Conjugate	Brilliant Violet™ 650
Excitation/Emission Max	407/646 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!

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 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 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Brilliant Violet™ 650 (BV650) is a tandem dye that emits at 649 nm and is intended for use on cytometers equipped with a violet (405 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-4401-42) 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 # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) 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

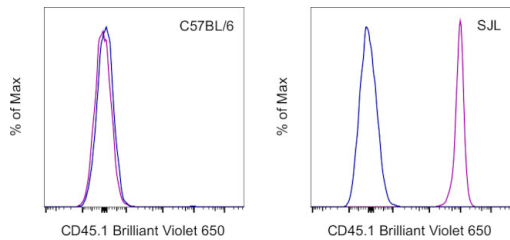
made, but clone-specific performance should be determined empirically.

Our internal testing suggests that Brilliant Violet™ 650 (BV650) is not compatible with methanol-based fixation.

Excitation: 407 nm; Emission: 649 nm; Laser: Violet Laser.

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Product Images For CD45.1 Monoclonal Antibody (A20), Brilliant Violet™ 650, eBioscience™



CD45.1 Antibody (416-0453-80) in Flow

C57BL/6 (left) or SJL (right) mouse splenocytes were stained with 0.5 µg of Mouse IgG2a kappa Isotype Control, Brilliant Violet 650 (Product # 416-4724-81) (blue histogram) or 0.5 µg of CD45.1 Monoclonal Antibody, Brilliant Violet 650 (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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