

# CD45 Monoclonal Antibody (30-F11), Brilliant Ultra Violet™ 615, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Brilliant Ultra Violet™ 615, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	30-F11
Conjugate	Brilliant Ultra Violet™ 615
Excitation/Emission Max	350/607 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_2925408

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

## Product Specific Information

**Description:** The 30-F11 monoclonal antibody reacts with all isoforms of mouse CD45, also known as Leukocyte Common Antigen (LCA). CD45 is expressed by all hematopoietic cells excluding mature erythrocytes and platelets. The cytoplasmic portion of CD45 has tyrosine phosphatase enzymatic activity and plays an important role in activation of lymphocytes.

**Applications Reported:** This 30-F11 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 30-F11 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. 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™ 615 (BUV615) is a tandem dye that emits at 615 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-4401-42) 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.

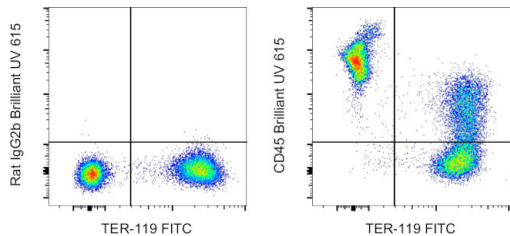
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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.

Excitation: 350 nm; Emission: 615 nm; Laser: Ultraviolet Laser.

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Product Images For CD45 Monoclonal Antibody (30-F11), Brilliant Ultra Violet™ 615, eBioscience™



**CD45 Antibody (366-0451-82) in Flow**  
C57BL/6 mouse bone marrow cells were stained with TER-119 Monoclonal Antibody, FITC (Product # 11-5921-82) and 0.25 µg of Rat IgG2b kappa Isotype Control, Brilliant Ultra Violet 615 (Product # 366-4031-81) (left) or 0.25 µg of CD45 Monoclonal Antibody, Brilliant Ultra Violet 615 (right). Cells in the gate were used for analysis.

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