

# CD166 (ALCAM) Monoclonal Antibody (3A6), Super Bright™ 600, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	3A6
Conjugate	Super Bright™ 600
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_2762552

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µl (0.25 µg)/test	-

## Product Specific Information

Description: This 3A6 monoclonal antibody reacts with human CD166, which is also known as activated leukocyte cell adhesion molecule (ALCAM). CD166 is an immunoglobulin superfamily cell adhesion molecule that is broadly expressed on developing and adult hematopoietic (e.g., activated T and B cells, monocytes, and dendritic cells) and non-hematopoietic (e.g., neural, endothelial, and epithelial) tissues. CD166 has also been detected in melanoma, colorectal carcinoma, as well as cancers of the breast, prostate, and bladder. CD166 mediates cell-cell adhesion by forming low-affinity homophilic interactions (ALCAM-ALCAM) or high-affinity heterophilic interactions with its ligand CD6 (ALCAM-CD6). CD166 plays a role in development, inflammation, and neutrophil migration. Moreover, its expression can be used as a prognostic marker for several cancers and has been reported to be a cancer stem cell marker.

The 3A6 antibody has been reported to induce the internalization of CD166 and its recycling back to the cell surface.

Applications Reported: This 3A6 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 3A6 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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  $\mu$ 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.

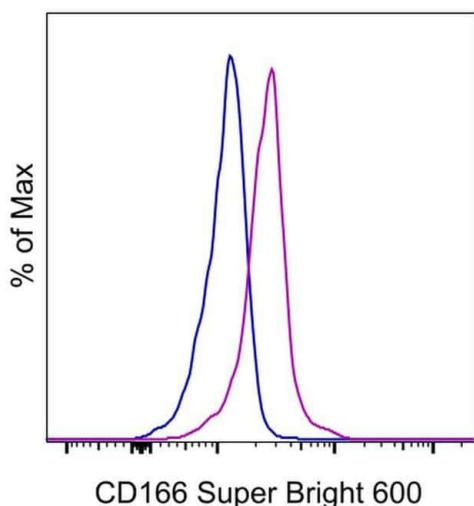
Excitation: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

## Product Images For CD166 (ALCAM) Monoclonal Antibody (3A6), Super Bright™ 600, eBioscience™

### CD166 (ALCAM) Antibody (63-1668-42) in Flow

Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, Super Bright 600 (Product # 63-4714-82) (blue histogram) or CD166 Monoclonal Antibody, Super Bright 600 (purple histogram). Cells in the monocyte gate were used for analysis.



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