

CD166 (ALCAM) Monoclonal Antibody (3A6), PerCP-eFluor 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	3A6
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10733395

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	3 Publications

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-titrated and tested by flow cytometric analysis of normal human peripheral blood lymphocytes. This can 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 10⁵ to 10⁸ cells/test.

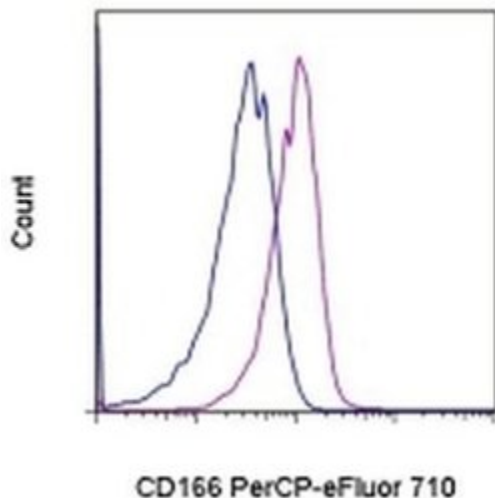
PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD166 (ALCAM) Monoclonal Antibody (3A6), PerCP-eFluor 710, eBioscience™



CD166 (ALCAM) Antibody (46-1668-42) in Flow

Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (Product # 46-4714-82) (blue histogram) or Anti-Human CD166 (ALCAM) PerCP-eFluor® 710 (purple histogram). Cells in the monocyte gate were used for analysis.

Flow Cytometry (3)

Cell death & disease

Cell surface galectin-3 defines a subset of chemoresistant gastrointestinal tumor-initiating cancer cells with heightened stem cell characteristics.

"46166842 was used in flow cytometry to investigate the role of galectin-3 in gastrointestinal cancer stem cells"

Authors: Ilmer M, Mazurek N, Byrd JC, Ramirez K, Hafley M, Alt E, Vykoukal J, Bresalier RS

Species
Human

Dilution
Not Cited

Year
2016

Stem cells and development

Enrichment of Human Stem-Like Prostate Cells with s-SHIP Promoter Activity Uncovers a Role in Stemness for the Long Noncoding RNA H19.

"Published figure using CD166 (ALCAM) monoclonal antibody (Product # 46-1668-42) in Flow Cytometry"

Authors: Bauderlique-Le Roy H, Vennin C, Brocqueville G, Spruyt N, Adriaenssens E, Bourette RP

Species
Human

Dilution
Not Cited

Year
2015

[View more Flow references on thermofisher.com](#)

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