

CD10 Monoclonal Antibody (eBioCB-CALLA (CB-CALLA)), PE-Cyanine5, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioCB-CALLA (CB-CALLA)
Conjugate	PE-Cyanine5
Excitation/Emission Max	568/666 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10596518

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	5 Publications

Product Specific Information

Description: The eBioCB-CALLA monoclonal antibody recognizes human CD10 (CALLA, NEP, enkephalinase, Neprilysin), which is a 100 kDa, type II cell surface glycoprotein originally identified for its expression on most acute lymphoblastic leukemias (ALL). Subsequently, CD10 was shown to be the same molecule as the neutral endopeptidase (NEP), or KII-NA. CD10 is a Zn²⁺-dependent metallo-peptidase with endothelin, glucagon, gastrin, neurotensin and bradykinin included among its substrates. CD10 is involved in the regulation of chemotactic and inflammatory processes involving neutrophils. In B cells, CD10 regulates stromal cell-dependent B lymphopoiesis and expression has also been reported on mature B cells in germinal centres. In addition to the hematopoietic compartment, other major sites of CD10 expression are the brush border of enterocytes and renal tubules and glomeruli. There is partial blocking of the eBioCB-CALLA and MEM-78 monoclonal antibodies indicating that they recognize similar epitopes.

Applications Reported: This eBioCB-CALLA (CB-CALLA) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioCB-CALLA (CB-CALLA) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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.

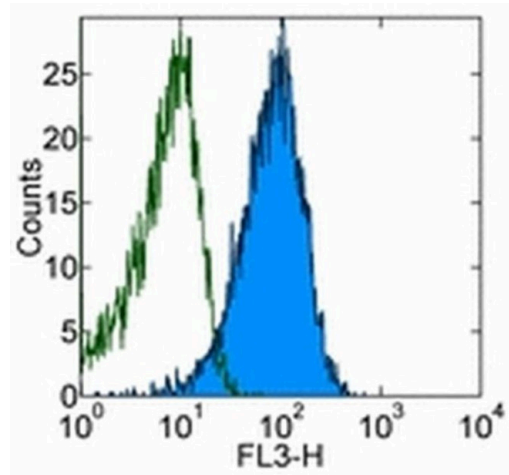
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL cell sample + 100 µL 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: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD10 Monoclonal Antibody (eBioCB-CALLA (CB-CALLA)), PE-Cyanine5, eBioscience™



CD10 Antibody (15-0106-42) in Flow
Staining of normal human peripheral blood cells with staining buffer (autofluorescence) (open histogram) or Anti-Human CD10 PE-Cyanine5 (filled histogram). Cells in the granulocyte gate were used for analysis.

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5 References

Flow Cytometry (5)

<p>Cancer research</p> <p>Endometriosis-Associated Mesenchymal Stem Cells Support Ovarian Clear Cell Carcinoma through Iron Regulation.</p> <p>"Published figure using CD10 monoclonal antibody (Product # 15-0106-42) in Flow Cytometry"</p> <p>Authors: Atiya HI, Frisbie L, Goldfeld E, Orellana T, Donnellan N, Modugno F, Calderon M, Watkins S, Zhang R, Elishaev E, Soong TR, Vlad A, Coffman L</p>	<p>Year</p> <p>2022</p>
<p>The Journal of experimental medicine</p> <p>Heterogeneous disease-propagating stem cells in juvenile myelomonocytic leukemia.</p> <p>"Published figure using CD10 monoclonal antibody (Product # 15-0106-42) in Flow Cytometry"</p> <p>Authors: Louka E, Povinelli B, Rodriguez-Meira A, Buck G, Wen WX, Wang G, Sousos N, Ashley N, Hamblin A, Booth CAG, Roy A, Elliott N, Iskander D, de la Fuente J, Fordham N, O'Byrne S, Ingloft S, Norfo R, Salio M, Thongjuea S, Rao A, Roberts I, Mead AJ</p>	<p>Year</p> <p>2021</p>

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