

CD10 Monoclonal Antibody (eBioCB-CALLA (CB-CALLA)), APC, 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), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioCB-CALLA (CB-CALLA)
Conjugate	APC
Excitation/Emission Max	651/660 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_11043552

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	7 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.

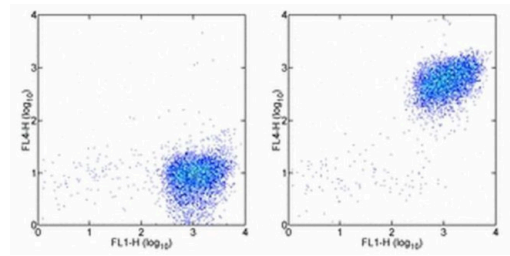
Applications Reported: This eBioCB-CALLA (CB-CALLA) antibody has been reported for use in flow cytometric analysis.

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.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD10 Antibody (17-0106-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD15 FITC (Product # 11-0159-42) and Mouse IgG2b K Isotype Control APC (Product # 17-4732-81) (left) or Anti-Human CD10 APC (right). Cells in the granulocyte gate were used for analysis.

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8 References

Immunocytochemistry (1)

Advanced science (Weinheim, Baden-Wurttemberg, Germany) A CD10-OGP Membrane Peptolytic Signaling Axis in Fibroblasts Regulates Lipid Metabolism of Cancer Stem Cells via SCD1. "Published figure using CD10 monoclonal antibody (Product # 17-0106-42) in Immunocytochemistry" Authors: Yu S,Lu Y,Su A,Chen J,Li J,Zhou B,Liu X,Xia Q,Li Y,Li J,Huang M,Ye Y,Zhao Q,Jiang S,Yan X,Wang X,Di C, Pan J,Su S	Year 2021
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Flow Cytometry (7)

Cancer research Endometriosis-Associated Mesenchymal Stem Cells Support Ovarian Clear Cell Carcinoma through Iron Regulation. "Published figure using CD10 monoclonal antibody (Product # 17-0106-42) in Flow Cytometry" Authors: Atiya Hl,Frisbie L,Goldfeld E,Orellana T,Donnellan N,Modugno F,Calderon M,Watkins S,Zhang R,Elishaev E, Soong TR,Vlad A,Coffman L	Year 2022
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Blood advances ALL blasts drive primary mesenchymal stromal cells to increase asparagine availability during asparaginase treatment. "17-0106-42 was used in Flow Cytometry to conclude that ALL blasts arrange a pro-leukemic amino acid trade-off with bone marrow mesenchymal cells, which depends on GS and SNAT5 and promotes leukemic cell survival during l-asparaginase treatment." Authors: Chiu M,Taurino G,Dander E,Bardelli D,Fallati A,Andreoli R,Bianchi MG,Carubbi C,Pozzi G,Galuppo L, Mirandola P,Rizzari C,Tardito S,Biondi A,D'Amico G,Bussolati O	Year 2021 Species Human
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