

CD199 (CCR9) Monoclonal Antibody (eBioCW-1.2 (CW-1.2)), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Mouse / IgG2a
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioCW-1.2 (CW-1.2)
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10597272

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	2 Publications

Product Specific Information

Description: The eBioCW-1.2 monoclonal antibody reacts with mouse CCR9 (CD199), which is the receptor for thymus-expressed chemokine (TECK). CCR9 is a member of the G protein coupled receptor (GPCR) supergene family, and is involved in trafficking of T cell progenitors within the thymus. CCR9 expression during thymocyte development commences at the double-negative (DN) 3 stage (CD4-CD8-CD25+CD44-), peaks in the double-positive (DP) stage (CD4+CD8+CD25-CD44-), and is down-regulated in committed CD4+ or CD8+ single-positive (SP) thymocytes. CCR9-deficient mice show a mild impairment in thymocyte development. In the periphery, CCR9 is thought to be expressed on naive CD8+ T cells, but not on naive CD4+ T cells.

Applications Reported: This eBioCW-1.2 (CW-1.2) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioCW-1.2 (CW-1.2) antibody has been tested by flow cytometric analysis of mouse thymocytes. This can 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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

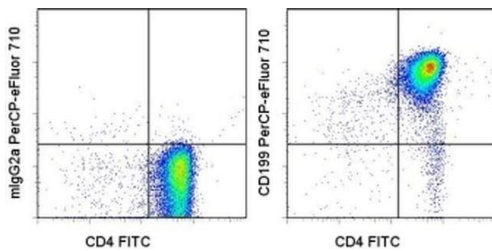
an acceptable alternative.

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 CD199 (CCR9) Monoclonal Antibody (eBioCW-1.2 (CW-1.2)), PerCP-eFluor™ 710, eBioscience™



CD199 (CCR9) Antibody (46-1991-82) in Flow

Staining of C57Bl/6 thymocytes with Anti-Mouse CD4 APC (Product # 17-0041-82) and 0.25 µg of Mouse IgG2a kappa Isotype Control PerCP-eFluor® 710 (Product # 46-4724-82) (left) or 0.25 µg of Anti-Mouse CD199 (CCR9) PerCP-eFluor® 710 (right). Total viable cells were used for analysis.

2 References

Flow Cytometry (2)

Nature communications

Limited clonal relatedness between gut IgA plasma cells and memory B cells after oral immunization.

"Published figure using CD199 (CCR9) monoclonal antibody (Product # 46-1991-82) in Flow Cytometry"

Authors: Bemark M, Hazanov H, Strömberg A, Komban R, Holmqvist J, Köster S, Mattsson J, Sikora P, Mehr R, Lycke NY

Species

Not Applicable

Dilution

Not Cited

Year

2016

Journal of immunological methods

A 3-D enteroid-based model to study T-cell and epithelial cell interaction.

"46-1991 was used in Flow cytometry/Cell sorting to describe a novel method for studying specific pathways in intestinal epithelial cell or immune cell compartments."

Authors: Rogoz A, Reis BS, Karssemeijer RA, Mucida D

Species

Mouse

Dilution

Not Cited

Year

2015

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