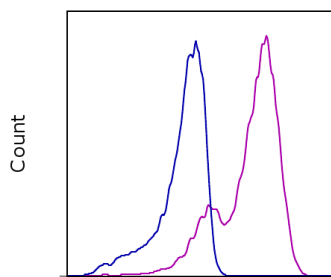


Anti-Mouse CD223 (Lag-3) PerCP-eFluor® 710

Catalog Number: 46-2231

RUO: For Research Use Only. Not for use in diagnostic procedures.




CD223 PerCP-eFluor 710

Staining of 3-day Anti-Mouse CD3 and Anti-Mouse CD28 Functional Grade Purified (cat. 16-0031 and 16-0281)-stimulated C57Bl/6 splenocytes with 0.25 ug of Rat IgG1 K Isotype Control PerCP-eFluor® 710 (cat. 46-4301) (blue histogram) or 0.25 ug of Anti-Mouse CD223 (Lag-3) PerCP-eFluor® 710 (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor® 450, were used for analysis.

Product Information

Contents: Anti-Mouse CD223 (Lag-3)

PerCP-eFluor® 710

 **Catalog Number:** 46-2231

Clone: eBioC9B7W (C9B7W)

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



 LOT



Description

The eBioC9B7W monoclonal antibody recognizes mouse CD223 (LAG-3, LAG3) protein expressed by activated alpha/beta-TCR bearing T cells, a subset of gamma/delta-TCR bearing T cells and a subset of NK cells. CD223 is a 70 kDa type I transmembrane protein with a structure that is similar to CD4. However, a soluble form of human CD223 has been detected by ELISA in human serum, and data suggest that mouse CD223 is proteolytically cleaved in the D4 domain. This results in a 54 kDa fragment containing all the extracellular domains, and a 16 kDa fragment containing the intracellular and transmembrane domains. The 54 kDa can remain membrane-associated or be released as soluble CD223.

CD223 binds to MHC class II with higher affinity than CD4, and it is thought that this interaction is involved in the negative regulation of T-cell activation and homeostatic proliferation. Furthermore, CD223 is expressed by CD4+CD25+ regulatory T cells, and it has been suggested that CD223 may be involved in their regulatory function.

Applications Reported

This C9B7W antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBioC9B7W antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. 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.

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com

Anti-Mouse CD223 (Lag-3) PerCP-eFluor® 710

Catalog Number: 46-2231

RUO: For Research Use Only. Not for use in diagnostic procedures.

References

Workman CJ, Vignali DA. Negative regulation of T cell homeostasis by lymphocyte activation gene-3 (CD223). *J Immunol.* 2005 Jan 15;174(2):688-95. (C9B7W, FA, PubMed)

Li N, Workman CJ, Martin SM, Vignali DA. Biochemical analysis of the regulatory T cell protein lymphocyte activation gene-3 (LAG-3; CD223). *J Immunol.* 2004 Dec 1;173(11):6806-12. (C9B7W, IP, PubMed)

Huang CT, Workman CJ, Flies D, Pan X, Marson AL, Zhou G, Hipkiss EL, Ravi S, Kowalski J, Levitsky HI, Powell JD, Pardoll DM, Drake CG, Vignali DA. Role of LAG-3 in regulatory T cells. *Immunity.* 2004 Oct;21(4):503-13. (C9B7W, FC, FA, PubMed)

Workman CJ, Rice DS, Dugger KJ, Kurschner C, Vignali DA. Phenotypic analysis of the murine CD4-related glycoprotein, CD223 (LAG-3). *Eur J Immunol.* 2002 Aug;32(8):2255-63. (C9B7W, FC, FA, PubMed)

Baixeras E, Huard B, Miossec C, Jitsukawa S, Martin M, Hercend T, Auffray C, Triebel F, Piatier-Tonneau D. Characterization of the lymphocyte activation gene 3-encoded protein. A new ligand for human leukocyte antigen class II antigens. *J Exp Med.* 1992 Aug 1;176(2):327-37.

Related Products

12-5773 Anti-Mouse/Rat Foxp3 PE (FJK-16s)

46-4301 Rat IgG1 K Isotype Control PerCP-eFluor® 710

65-0863 Fixable Viability Dye eFluor® 450