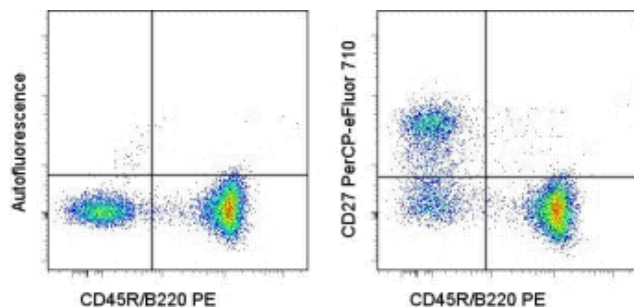


Anti-CD27 PerCP-eFluor® 710

Catalog Number: 46-0271

Also Known As: TNFRSF7

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



Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) PE (cat. 12-0452) and staining buffer (autofluorescence) (left) or 0.03 ug of Anti-CD27 PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-CD27 PerCP-eFluor® 710

REF **Catalog Number:** 46-0271

Clone: LG.7F9

Concentration: 0.2 mg/mL

Host/Isotype: Armenian Hamster IgG

HLDA Workshop: N/A

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.

LOT **Batch Code:** Refer to Vial

Use By: Refer to Vial

Contains sodium azide

Description

The LG.7F9 monoclonal antibody reacts with mouse CD27, a lymphocyte-specific member of the TNFR superfamily. CD27 is expressed by virtually all mature T cells and by a subpopulation of B cells, mainly memory B cells. In mouse, CD27 has been found on nearly all thymocytes excluding a population of CD46-CD8- precursors. CD27 binds to CD70 and, through this interaction, plays an important role in T cell-B cell interaction. It has been reported that triggering CD27 plays an important role in the maturation of CD4+ and CD8+ effector cells. LG.7F9 cross-reacts with human and rat CD27.

Applications Reported

This LG.7F9 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This LG.7F9 antibody has been tested by flow cytometric analysis of mouse spleen cells. This can be used at less than or equal to 0.06 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.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) 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.

References

Gravestain LA, Nieland JD, Kruisbeek AM, Borst J. 1995. Novel mAbs reveal potent co-stimulatory activity of murine CD27. *International Immunology* 7(4): 551-557

Tesselaar K, Gravenstine LA, et al. 1997. Characterization of Murine CD70, the Ligand of the TNF Receptor Family Member CD27. *The Journal of Immunology* 159: 4959-4965

Tesselaar K, Xiao Y, et al. 2002. Expression of the Murine CD27 Ligand CD70 in Vitro and In Vivo. *The Journal of Immunology* 170: 33-40

Related Products

12-0452 Anti-Human/Mouse CD45R (B220) PE (RA3-6B2)
46-4888 Armenian Hamster IgG Isotype Control PerCP-eFluor® 710 (eBio299Arm)

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