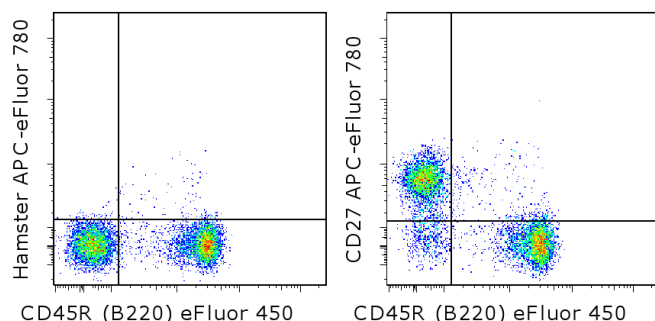


Anti-CD27 APC-eFluor® 780

Catalog Number: 47-0271

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) eFluor® 450 (cat. 48-0452) and 0.125 ug of Armenian Hamster IgG Isotype Control APC-eFluor® 780 (cat. 47-4888) (left) or 0.125 ug of Anti-CD27 APC-eFluor® 780 (right). Total viable cells were used for analysis.

Product Information



Contents: Anti-CD27 APC-eFluor® 780

Catalog Number: 47-0271

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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.



Batch Code: Refer to vial



Use By: Refer to vial

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 splenocytes. This can be used at less than or equal to 0.25 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.

APC-eFluor® emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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

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

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brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

Gravestine 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

47-4888 Armenian Hamster IgG Isotype Control APC-eFluor® 780 (eBio299Arm)

48-0452 Anti-Human/Mouse CD45R (B220) eFluor® 450 (RA3-6B2)