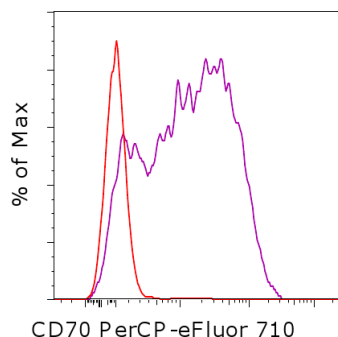


Anti-Mouse CD70 PerCP-eFluor® 710

Catalog Number: 46-0701

Also known as: TNFSF7, Ki-24, CD27 ligand

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



Staining of unstimulated (red histogram) or LPS- and Anti-Mouse CD40-stimulated (cat. 16-0401) (purple histogram) mouse splenocytes with 0.125 ug of Anti-Mouse CD70 PerCP-eFluor® 710. Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD70 PerCP-eFluor® 710



Catalog Number: 46-0701

Clone: FR70

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2b, 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

Description

The FR70 monoclonal antibody reacts with mouse CD70, a 30-33 kDa type II transmembrane glycoprotein. CD70 is a member of the TNF family and is expressed by activated mouse T and B lymphocytes. Interaction of CD70 with CD27, its ligand on T cells, is important in T-B cell crosstalk and plays a role in costimulation and immune regulation.

Applications Reported

This FR70 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This FR70 antibody has been tested by flow cytometric analysis of stimulated 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.

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

Oshima, H., H. Nakano, et al. (1998). Characterization of murine CD70 by molecular cloning and mAb Int Immunol 10(4): 517-26.

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Akiba, H., H. Oshima, et al. (1999). CD28-independent costimulation of T cells by OX40 ligand and CD70 on activated B cells. J Immunol 162(12): 7058-66.

Related Products

16-0401 Anti-Mouse CD40 Functional Grade Purified (1C10)

46-4031 Rat IgG2b K Isotype Control PerCP-eFluor® 710