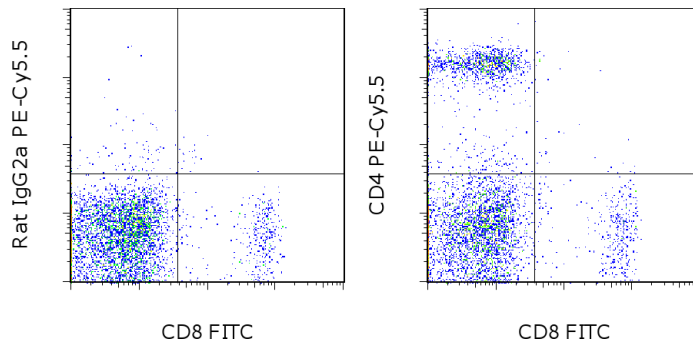


Anti-Mouse CD4 PE-Cyanine5.5

Catalog Number: 35-0042

Also known as: L3T4, Ly-4

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



Staining of BALB/c splenocytes with Anti-Mouse CD8a FITC (cat. 11-0081) and 0.06 ug of Rat IgG2a K Isotype Control PE-Cyanine5.5 (cat. 35-4321) (left) or 0.06 ug of Anti-Mouse CD4 PE-Cyanine5.5 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD4 PE-Cyanine5.5

Catalog Number: 35-0042

Clone: RM4-5

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a, 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 RM4-5 monoclonal antibody reacts with the mouse CD4 molecule, a 55 kDa cell surface receptor expressed by a majority of thymocytes, subpopulation of mature T cells and dendritic cells. CD4 binds to MHC class II on the surface of antigen presenting cells and plays an important role both in T cell development and in optimal functioning of mature T cells. In T cells, CD4 associates with protein tyrosine kinase p56lck through its cytoplasmic tail. Binding of RM4-5 is blocked by GK1.5.

Applications Reported

This RM4-5 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This RM4-5 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 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.

References

Irie J, Wu Y, Wicker LS, Rainbow D, Nalesnik MA, Hirsch R, Peterson LB, Leung PS, Cheng C, Mackay IR, Gershwin ME, Ridgway WM. NOD.c3c4 congenic mice develop autoimmune biliary disease that serologically and pathogenetically models human primary biliary cirrhosis. *J Exp Med.* 2006 May 15;203(5):1209-19. (**RM4-5**, IHC frozen)

Andres PG, Beck PL, Mizoguchi E, Mizoguchi A, Bhan AK, Dawson T, Kuziel WA, Maeda N, MacDermott RP, Podolsky DK, Reinecker HC. Mice with a selective deletion of the CC chemokine receptors 5 or 2 are protected from dextran sodium sulfate-mediated colitis: lack of CC chemokine receptor 5 expression results in a NK1.1+ lymphocyte-associated Th2-type immune response in the intestine. *J Immunol.* 2000 Jun 15;164(12):6303-12. (**RM4-5**, IHC frozen)

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Related Products

00-4222 Flow Cytometry Staining Buffer

00-4300 10X RBC Lysis Buffer (Multi-species)

11-0081 Anti-Mouse CD8a FITC (53-6.7)

35-4321 Rat IgG2a K Isotype Control PE-Cyanine5.5 (eBR2a)

48-0031 Anti-Mouse CD3e eFluor[®] 450 (145-2C11)

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