Anti-Mouse CD4 eFluor® 605NC (for IHC/ICC)

Catalog Number: IH93-0042
Also known as: L3T4, Ly-4
RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Mouse CD4 eFluor® 605NC (for IHC/ICC)
REF **Catalog Number:** IH93-0042
Clone: RM4-5
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.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

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 immunohistochemical staining of frozen tissue sections (IHC-F) and immunocytochemistry (ICC).

Applications Tested

This RM4-5 antibody has been tested by immunohistology of frozen mouse spleen using the IHC/ICC Blocking Buffer - Low Protein (cat. 00-4953). This antibody can be used at 1:100.

For answers to additional questions refer to for IHC/ICC protocols and eFluor Nanocrystal Frequently Asked Questions

Applications: This product has been optimized for use in immunohistochemistry and Immunocytochemistry. We do not recommend its use in flow cytometry.

Filter Recommendation: When using this eFluor® 605NC antibody conjugate, we recommend a filter that will capture the 605 emission wavelength, such as a 605/20 or 600/20. Please refer to Technical Support FAQ for more information.

Buffer Recommendation: We recommend the use of TBS-based solutions when performing IHC/ICC with eFluor® NC conjugated antibodies. We offer several products: IHC /ICC Blocking Buffer - Low Protein (cat. 00-4953), and IHC /ICC Blocking Buffer – High Protein (cat. 00-4952) which is optimal when staining FFPE sections or when using eFluor® nanocrystal conjugates to nuclear targets.

Mounting Recommendation: For optimal results, we recommend the use of Fluoromount-G™ (cat. 00-4958) when mounting slides.

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, PubMed)

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

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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)

Related Products
00-4953 IHC /ICC Blocking Buffer - Low Protein
00-4958 Fluoromount-G™
IH95-0081 Anti-Mouse CD8a eFluor® 650NC (for IHC/ICC) (53-6.7)
IH95-0452 Anti-Human/Mouse CD45R (B220) eFluor® 650NC (for IHC/ICC) (RA3-6B2)

Legal
Under patent number: US 7,939,170 and additional pending patent application(s)

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