Anti-Mouse CD8a eFluor® 605NC (for IHC/ICC)

Catalog Number: IH93-0081
Also known as: CD8 alpha, Ly-2, Ly-35, Ly-B, Lyt-2
RUO: For Research Use Only

Product Information

Contents: Anti-Mouse CD8a eFluor® 605NC (for IHC/ICC)
REF **Catalog Number:** IH93-0081
Clone: 53-6.7
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 53-6.7 monoclonal antibody reacts with the mouse CD8a molecule. CD8a is an approximately 32-34 kDa cell surface receptor expressed either as a heterodimer with the CD8 beta chain (CD8 alpha beta) or as a homodimer (CD8 alpha alpha). A majority of thymocytes and a subpopulation of mature alpha beta TCR T cells express CD8 alpha beta while gamma delta; TCR T cells, a subpopulation of intestinal intraepithelial lymphocytes (IELs) and dendritic cells express CD8 alpha alpha. CD8 binds to MHC class I and through its association with protein tyrosine kinase p56lck plays a role in T cell development and activation of mature T cells.

Applications Reported

This 53-6.7 antibody has been reported for use in immunohistochemical staining of frozen tissue sections (IHC-F) and immunocytochemistry (ICC).

Applications Tested

This 53-6.7 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. Please refer to cat. 93-0081 as a suitable flow product.

Filter Recommendation: When using this eFluor® 650NC 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.

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References

Taylor JL, Ordway DJ, Troudt J, Gonzalez-Juarrero M, Basaraba RJ, Orme IM. Factors associated with severe granulomatous pneumonia in Mycobacterium tuberculosis-infected mice vaccinated therapeutically with hsp65 DNA. Infect Immun. 2005 Aug;73(8):5189-93. (**53-6.7**, IHC frozen)

Grabbe S, Varga G, Beissert S, Steinert M, Pendl G, Seeliger S, Bloch W, Peters T, Schwarz T, Sunderkötter C, Scharffetter-Kochanek K. Beta2 integrins are required for skin homing of primed T cells but not for priming naïve T cells. J Clin Invest. 2002 Jan;109(2):183-92. (**53-6.7**, IHC frozen)

Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein
00-4958 Fluoromount-G™

Legal

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

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