

A Reliable Research Partner in Life Science and Medicine

# Elab Fluor® 647 Anti-Mouse CD205 Antibody[NLDC-145]

Catalog Number: AN00844M

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### Description

Reactivity Mouse Host Rat

Isotype Rat IgG2a, κ
Clone No. NLDC-145

Isotype Control Elab Fluor® 647 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832M]

Conjugation Elab Fluor® 647

**Conjugation Information** Elab Fluor<sup>®</sup> 647 is designed to be excited by the Red laser (627-640 nm) and detected

using an optical filter centered near 670 nm (e.g., a 660/20 nm bandpass filter).

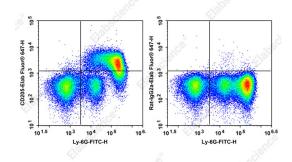
**Storage Buffer** Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

#### Applications Recommended usage

**FCM** 

Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5  $\mu$ L of antibody per test (million cells in 100  $\mu$ L staining volume or per 100  $\mu$ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

#### Data



Staining of C57BL/6 murine bone marrow cells with FITC

Anti-Mouse Ly-6G/Ly-6C Antibody and Elab Fluor<sup>®</sup> 647 Anti-Mouse CD205 Antibody[NLDC-145] (left) or Elab Fluor<sup>®</sup> 647 Rat IgG2a,  $\kappa$  Isotype Control (right). Total viable cells were used for analysis.

## **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

## **Antigen Information**

**Alternate Names** CD205;Cd205;DEC-205;DEC205;Ly-75;Ly75;AN00844

 Uniprot ID
 Q60767

 Gene ID
 17076

## For Research Use Only

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## Elabscience Bionovation Inc.



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## **Background**

CD205, also known as DEC-205, is a 205 kD integral membrane protein homologous to the macrophage mannose receptor. It is a type I cell surface protein that belong to the C-type lectin family. CD205 is expressed at high levels by dendritic cells and thymic epithelial cells. It is also expressed by a number of other cell types, such as B lymphocytes, macrophages, Langerhans cells, bone marrow stromal cells, granulocytes, epithelial cells of pulmonary airways, and the capillaries of the brain. CD205 is a novel endocytic receptor used by dendritic cells and thymic epithelial cells to direct captured antigens from the extracellular space to specialized antigen processing. It mediates antigen uptake and presentation and cross-presentation to T cells. It has been reported that CD205 acts as a recognition receptor for dying cells, potentially provides an important pathway for the uptake of self-antigen in the intrathymic environment, and is involved in peripheral tolerance. Antibody-mediated antigen-targeting via the DEC-205 receptor increases the efficiency of vaccination for T cell immunity.

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