

## Purified anti-mouse CD205 (DEC-205)

**Catalog # / Size:** 138201 / 25 µg  
138202 / 100 µg

**Clone:** NLDC-145

**Isotype:** Rat IgG2a, κ

**Immunogen:** Mouse lymph node tissue

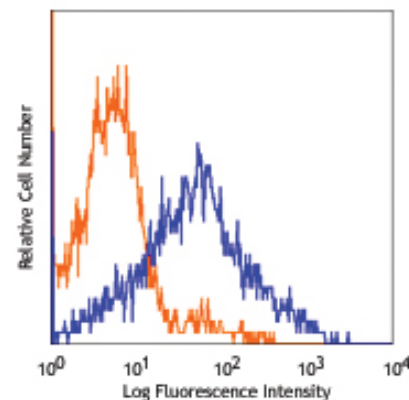
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.



Bone marrow derived-dendritic cells from C57BL/6 mouse stained with purified NLDC-145 conjugated with Alexa Fluor® 647

## Applications:

**Applications:** FC - *Quality tested*  
IHC, WB, IP - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections<sup>1</sup>, Western Blot<sup>1-3</sup>, and immunoprecipitation of bone marrow dendritic cell extracts<sup>2</sup>.

**Application References:**

1. Witmer-Pack MD, *et al.* 1995. *Cell. Immun.* 163:157. (IHC, WB)
2. Swiggard WJ, *et al.* 1995. *Cell. Immun.* 165:302. (WB, IP)
3. Bonifaz LC, *et al.* 2004. *J. Exp. Med.* 199:815. (WB)
4. Yamazaki S, *et al.* 2002. *J. Immunol.* 181:6923. (FC)
5. Bankoti J, *et al.* 2010. *Toxicol. Sci.* 115:422. (FC)

**Description:** 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.

**Antigen References:**

1. Jiang WP, *et al.* 1995. *Nature* 375:151.
2. Small M and Kraal G. 2003. *Int. Immunol.* 15:197.
3. Shrimpton RE, *et al.* 2009. *Mol. Immunol.* 46:1229.

### Related Products:

**Product**  
Purified Rat IgG2a, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

**Clone**  
RTK2758

**Application**  
FC, ICC, IF, IHC, IP, WB  
FC, ICC, ICFC  
FC, ICFC



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