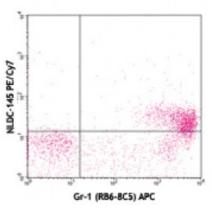
Product Data Sheet

PerCP/Cy5.5 anti-mouse CD205 (DEC-205)

Catalog # / Size:	1291040 / 100 μg 1291035 / 25 μg	
Clone:	NLDC-145	
Isotype:	Rat IgG2a, к	
Immunogen:	Mouse lymph node tissue	
Reactivity:	Mouse	
Preparation:	The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.	
Concentration:	0.2	



C57BL/6 mouse bone marrow cells stained with NLDC-145 PerCP/Cy5.5 and Gr-1 (RB6-8C5) APC

Applications:

Applications: Flow Cytometry

Each lot of this antibody is quality control tested by immunofluorescent staining Recommended Usage: with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

> * PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Application Additional reported applications (for relevant formats) include: Notes: immunohistochemical staining of acetone-fixed frozen sections1, Western Blot¹⁻³, and immunoprecipitation of bone marrow dendritic cell extracts2.

Application	1. Witmer-Pack MD, et al. 1995. Cell. Immun. 163:157. (IHC, WB)
References:	2. Swiggard WI. <i>et al.</i> 1995. <i>Cell. Immun.</i> 165:302. (WB. IP)

- 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

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DEC-205 receptor increases the efficiency of vaccination for T cell immunity.

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