

Product Data Sheet

Alexa Fluor® 647 anti-mouse CD205 (DEC-205)

Catalog # / Size:	138203 / 25 µg 138204 / 100 µg
Clone:	NLDC-145
Isotype:	Rat IgG2a, κ
Immunogen:	Mouse lymph node tissue
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.
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 and protected from prolonged exposure to light. Do not freeze.

Applications:

Applications:	FC - Quality tested IHC - Validated	
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 $\leq 0.25 \ \mu g$ per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.	SHI (S
	 * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm. ** Alexa Fluor® 647 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 647 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents. 	Cert (1996-80
Application Notes:	Additional reported applications (for relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections ¹ , Western Blot ¹⁻³ , and immunoprecipitation of bone marrow dendritic cell extracts ² .	NLDC-145 Alexa Fluore 647 C57BL/6 mouse bone marrow cells stained with Gr.1 (RB6.8C5) FITC
Application References:	 Witmer-Pack MD, et al. 1995. Cell. Immun. 163:157. (IHC, WB) Swiggard WJ, et al. 1995. Cell. Immun. 165:302. (WB, IP) Bonifaz LC, et al. 2004. J. Exp. Med. 199:815. (WB) Yamazaki S, et al. 2002. J. Immunol. 181:6923. (FC) Bankoti J, et al. 2010. Toxicol. Sci. 115:422. (FC) 	and NLDC-145 Alexa Fluor® 647
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 belongs 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.	The IgG2a Alexa Fluoro 647 C57BL/6 mouse bone marrow cells stained with Gr-1 (RB6-8C5) FITC and rat IgG2a Alexa Fluor® 647
Antigen References:	 Jiang WP, et al. 1995. Nature 375:151. Small M and Kraal G. 2003. Int. Immunol. 15:197. Shrimpton RE, et al. 2009. Mol. Immunol. 46:1229. 	isotype control
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Bone marrow derived-dendritic cells from C57BL/6 mouse stained with NLDC-145 Alexa Fluor® 647







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Related Products: Product

Alexa Fluor® 647 Rat IgG2a, κ Isotype Ctrl Cell Staining Buffer RBC Lysis Buffer (10X) TruStain fcX™ (anti-mouse CD16/32) Clone RTK2758

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Application FC, ICFC FC, ICC, ICFC FC, ICFC FC



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