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Product Data Sheet

LOU rat splenocytes stained with

W3/25 Alexa Fluor® 647

Alexa Fluor® 647 anti-rat CD4

Catalog # / Size:	201513 / 25 µg 201514 / 100 µg					
Cloner	1/12/25			1		
Cione.	VV3/23	I	1	ni.		
Isotype:	Mouse IgG1, κ			1		
Immunogen:	Rat thymocyte membrane glycoproteins	ê	, A	<u>.</u>		
Reactivity:	Rat	2	- 0	1		
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.	Relative Ce	AN I			
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.	-	W.			
Concentration:	0.5 mg/ml	!		- Eng	А.,	λ.
Storage:	The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.	10	D	10 ¹ Log Fluores	10 ² sence Int	10 ³ tensity

Applications:

Applications:	FC - Quality tested IHC - Reported in the literature					
Recommended Usage:	Each lot of this antibody is quality control tested by immuno immunofluorescent staining, the suggested use of this reag- recommended that the reagent be titrated for optimal perfor	nunofluorescent staining with flow cytometric analysis. For reagent is $\leq 0.25 \ \mu$ g per million cells in 100 μ l volume. It is performance for each application.				
	* Alexa Fluor® 647 has a maximum emission of 668 nm wh ** Alexa Fluor® 647 is a registered trademark of Molecular are sold under license from Molecular Probes, Inc. for resea microarrays and high content screening, and are covered by	en it is excited at 633 nm Probes, Inc. Alexa Fluor® arch use only, except for u y pending and issued pate	/ 635 nm. 0 647 dye antibody conjugates use in combination with ents.			
Application Notes:	The W3/25 antibody has been shown to inhibit IL-2 production by T helper cells and to prevent autoimmune T cell transfer in an MBP induced EAE model <i>in vivo</i> . Additional reported applications (for the relevant formats) include: immunohistochemistryof acetone-fixed frozen sections ^{1,2} , inhibition of IL-2 production ³ , inhibition of MBP-induced T cell activation in EAE transfer model ³ .					
Application References:	 Whiteland JL, et al. 1995. J. Histochem. Cytochem. 43:313. (IHC) Shioji K, et al. 2001. Circulation Res. 89:540. (IHC) Mannie MD, et al. 1993. J. Immunol. 151:7293. Kurtz CC, et al. 2007. Dev. Comp. Immunol. 31:415. PubMed 					
Description:	CD4 is a 55 kD glycoprotein also known as T4. Rat CD4 is a member of the immunoglobulin superfamily and is expressed on majority of thymocytes, macrophages, and a peripheral T cell subset (T helper cells). CD4 is a T cell co-receptor that interacts with the MHC class II molecule and is involved in T cell activation.					
Antigen References:	1. Brideau RJ, <i>et al.</i> 1980. <i>Eur. J. Immunol.</i> 10:609. 2. Clark SJ, <i>et al.</i> 187. <i>P. Natl. Acad. Sci.</i> USA 84:1649.					
Related Products: Product		Clone	Application			
	Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (FC)	MOPC-21	FC, IF			



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