

Product Data Sheet

Alexa Fluor® 647 anti-mouse CD218a (IL-18Rα)

Catalog # / Size:	132903 / 25 tests			
Clone:	BG/IL18RA		2	
Isotype:	Rat IgG1		03 (145-2011) PE	
Immunogen:	Mouse NS0-derived rmIL-18R α extracellular domain			
Reactivity:	Mouse			
Preparation:	The antibody was purified by affinity chromatography, a Alexa Fluor® 647 under optimal conditions. The solution unconjugated Alexa Fluor® 647.	nd conjugated with n is free of		
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% 0.2% (w/v) BSA (origin USA).	sodium azide and	BG/IL18RA AF647	
Storage:	The antibody solution should be stored undiluted at 4°C prolonged exposure to light. Do not freeze.	and protected from		
Applications:			C57BL/6 splenocytes stained with CD3 (145-2C11) PE and BG/IL18RA	
Applications:	FC - Quality tested		Alexa Fluor® 047	
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 $\leq 5 \mu$ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.			
	* Alexa Fluor® 647 has a maximum emission of 668 nm ** Alexa Fluor® is a registered trademark of Molecular F under license from Molecular Probes, Inc. for research high content screening, and are covered by pending an	n when it is excited at 63 Probes, Inc. Alexa Fluor use only, except for use d issued patents.	3nm / 635nm. B dye antibody conjugates are sold in combination with microarrays and	
Application References:	1. Yu Q, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:3346 2. Pham D, <i>et al.</i> 2012. <i>J. Immunol.</i> 189:832. PubMed.			
Description:	The IL-18 receptor (IL-18R) complex is composed of two known chains, IL-18 receptor α (IL-18R α) and IL-18 receptor β (IL-18R β). IL-18R α (IL-1R5) is an IL-1 receptor super family member. It was originally described as IL-1 receptor-related protein (IL-1Rp) because of its homology with the IL-1/Toll receptor family. IL-18R α is the extracellular binding domain of the IL-18 receptor complex. It is expressed on the majority of peripheral CD4+ T cells, Th1 cells, and reciprocally repressed during Th2 development. The expression of IL-18R α is induced by an IL-12/Stat4 pathway and inhibited by IL-4/Stat6 pathway. Binding of IL-18R α together with IL-18 β to proinflammatory cytokine IL-18 plays an important role in innate and autoimmune responses.			
Antigen References:	1. Parnet P, <i>et al.</i> 1996. <i>J. Biol. Chem.</i> 271 :3967 2. Thomassen E, <i>et al.</i> 1998. <i>J. Interferon Cytokine Res.</i> 18:1077 3. Debets R, <i>et al.</i> 2000. <i>J. Immunol.</i> 165:4950 4. Smeltz RB, <i>et al.</i> 2001. <i>J. Exp. Med.</i> 194:143			
Related Products: Product		Clone	Application	
	Alexa Fluor® 647 Rat IgG1, κ Isotype Ctrl Cell Staining Buffer RBC Lysis Buffer (10X)	RTK2071	FC, ICFC FC, ICC, ICFC FC, ICFC	
	TruStain fcX™ (anti-mouse CD16/32)	93	FC	





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