

Datasheet: MCA1266SBV610

Description:	MOUSE ANTI MOUSE CD161 / NK1.1:StarBright Violet 610		
Specificity:	CD161 / NK1.1		
Format:	StarBright Violet 610		
Product Type:	Monoclonal Antibody		
Clone:	PK136		
Isotype:	lgG2a		
Quantity:	100 TESTS/0.5ml		

Product Details

Applications	This product has beer derived from testing w communications from	vithin our labor	atories, p	peer-reviewed publication	tions or personal	
	information. For genering the second se	•	commeno No	dations, please visit <u>w</u> Not Determined	ww.bio- Suggested Dilution	
	Flow Cytometry	•	No	Not Botominou	Neat	
	Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.					
Target Species	Mouse					
Species Cross Reactivity	Does not react with:Rat, Human					
Product Form	Purified IgG conjugated to StarBright Violet 610 - liquid					
Max Ex/Em	Fluorophore	Excitation Ma	ax (nm)	Emission Max (nm)		
	StarBright Violet 610	403		607		
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant					
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Alb 0.1% Pluronic F68 0.1% PEG 3350					

	0.05% Tween 20			
Approx. Protein Concentrations	For information on the concentration of our StarBright Dye conjugated reagents please visit our <u>FAQ</u> page.			
Immunogen	Spleen and bone marrow cells from CE mice.			
External Database Links	UniProt:			
	P27814 Related reagents			
	P27812 Related reagents			
	Entrez Gene:			
	17059 Kirb1c Related reagents			
	80782 Kirb1b Related reagents			
Synonyms	Ly55b, Ly55c, Nkrp1b, Nkrp1c			
Fusion Partners	Spleen cells from immunized (C3H x BALB/c) FI Hybrid were fused with cells of the Sp2/0 - Ag14 myeloma cell line.			
Specificity	Mouse anti Mouse CD161 / NK1.1 antibody, clone PK136 recognizes the mouse NK1.1 cell surface antigen, a cell surface glycoprotein encoded by members of the NKR-P1 gene family. The NK1.1 surface antigen is also known as CD161b/CD161c and Ly-55.			
	In the mouse the NKR-P1 family has three members, NKR-P1A, -B and -C, whilst in the human only one member has been identified. The human protein has received the designation CD161, and the mouse proteins have been referred to as CD161a, -b, -c etc.			
	Although previously thought to recognize only CD161c, recent data has shown that the PK136 antibody may also react with CD161b. CD161c expression itself is strain specific in mice, but recognition of CD161b by PK136 appears to be even more complex, as only some CD161b positive strains are labelled by the antibody. Engagement of CD161c has been reported to have activating function in NK cells, whilst engagement of CD161b is inhibitory.			
	Mouse anti Mouse NK1.1 Antigen antibody, clone PK136 is useful for the identification of NK cells in selected strains of mice (positive on C57BL, FVB/N and NZB, but negative on AKR and BALB/c) and is also expressed by rare subsets of T cells and monocytes. Mouse anti Mouse NK1.1 antibody, clone PK136 has also been used for <i>in vivo</i> depletion of NK cells (<u>Wang <i>et al.</i> 2022</u>) and <i>in vitro</i> activation of NK cells (<u>Kung and Miller 1995</u>).			
Flow Cytometry	Use 5µl of the suggested working dilution to label 10^6 cells in $100µl$. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.			
References	1. Koo, G.C. <i>et al.</i> (1986) The NK-1.1(-) mouse: a model to study differentiation of murine NK cells. <u>J Immunol. 137 (12): 3742-7.</u> 2. Kung, S.K. & Miller RG (1995) The NK1.1 antigen in NK-mediated F1 antiparent killing			

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Further Reading1. Arase, N. et al. (1997) Association with FcRgamma is essential for activation signal
through NKR-P1 (CD161) in natural killer (NK) cells and NK1.1+ T cells. J Exp Med. 186
(12): 1957-63.

Storage	This product is shipped at ambient temperature. Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA1266SBV610
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A) MOUSE SEROBLOCK FcR (BUF041B)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M439778:250523'

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