

# Datasheet: MCA1266SBV570 BATCH NUMBER 100005106

Description:	MOUSE ANTI MOUSE CD161 / NK1.1:StarBright Violet 570
Specificity:	CD161 / NK1.1
Format:	StarBright Violet 570
Product Type:	Monoclonal Antibody
Clone:	PK136
Isotype:	lgG2a
Quantity:	100 TESTS/0.5ml

## **Product Details**

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			Neat
	Where this product ha necessarily exclude its a guide only. It is reconsystem using appropri	s use in such pro mmended that t	ocedures he user	s. Suggested working titrates the product for	g dilutions are given as
Target Species	Mouse				
Species Cross Reactivity	Does not react with:Rat, Human				
Product Form	Purified IgG conjugated to StarBright Violet 570 - liquid				
Max Ex/Em	Fluorophore	Excitation Max	(nm) E	mission Max (nm)	
	StarBright Violet 570	402	. ,	570	
Preparation	Purified IgG prepared supernatant	by affinity chron	natograp	bhy on Protein A fron	n tissue culture
Buffer Solution	Phosphate buffered sa	aline			
Preservative Stabilisers	0.09% Sodium Azide ( 1% Bovine Serum Alb 0.1% Pluronic F68	6,			

### 0.1% PEG 3350 0.05% Tween 20

Immunogen	Spleen and bone marrow cells from CE mice.
External Database Links	UniProt:
	P27814 Related reagents
	P27812 Related reagents
	Entrez Gene:
	17059 Klrb1c Related reagents
	80782 Klrb1b Related reagents
Synonyms	Ly55b, Ly55c, Nkrp1b, Nkrp1c
Fusion Partners	Spleen cells from immunised (C3H x BALB/c) FI Hybrid were fused with cells of the Sp2/0 - Ag14 myeloma cell line.
Specificity	<b>Mouse anti Mouse CD161 / NK1.1 antibody, clone PK136</b> 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 5ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
References	<ol> <li>Wang, M. <i>et al.</i> (1998) Natural killer cell depletion fails to influence initial CD4 T cell commitment in vivo in exogenous antigen-stimulated cytokine and antibody responses. J <u>Immunol. 160 (3): 1098-105.</u></li> <li>Koo, G.C. <i>et al.</i> (1986) The NK-1.1(-) mouse: a model to study differentiation of murine NK cells. J Immunol. 137 (12): 3742-7.</li> </ol>

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Storage	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 L counterparts	J.S. and foreign	
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1266SBV570">https://www.bio-rad-antibodies.com/SDS/MCA1266SBV570</a> 20471		
Regulatory	For research purposes only		
Related Produc Recommended Us			

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M379746:210408'

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