

# Datasheet: MCA1266SBB675 BATCH NUMBER 100006845

Description:	MOUSE ANTI MOUSE CD161 / NK1.1:StarBright Blue 675		
Specificity:	CD161 / NK1.1		
Format:	StarBright Blue 675		
Product Type:	Monoclonal Antibody		
Clone:	PK136		
lsotype:	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> .				
	Flow Cytometry	•			Neat
	Where this product han necessarily exclude its a guide only. It is reco system using appropri	s use in such pr mmended that t	ocedure the user	s. Suggested workin titrates the product f	g dilutions are given as
Target Species	Mouse				
Species Cross Reactivity	Does not react with:Rat, Human				
Product Form	Purified IgG conjugated to StarBright Blue 675 - liquid				
Max Ex/Em	Fluorophore	Excitation Max	(nm) E	Emission Max (nm)	
	StarBright Blue 675	476		675	
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

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 U.S. and foreign counterparts
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA1266SBB675 20471
Regulatory	For research purposes only
Related Produc	ots
Recommended Us	eful Reagents

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

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
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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 'M405163:220916'

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