

Datasheet: MCA1266SBV440

# **BATCH NUMBER 100003997**

Description:	MOUSE ANTI MOUSE CD161 / NK1.1:StarBright Violet 440		
Specificity:	CD161 / NK1.1		
Format:	StarBright Violet 440		
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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				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:F	Rat, Human	
Product Form	Purified IgG conjugat	ed to StarBright Violet	440 - liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Violet 440	385	438
Preparation	Purified IgG prepared supernatant	d by affinity chromatog	raphy on Protein A from tissue
Buffer Solution	Phosphate buffered s	saline	
Preservative	0.09% Sodium Azide	(NaN <sub>3</sub> )	
Stabilisers	1% Bovine Serum All	bumin	
	0.1% Pluronic F68		

	0.1% PEG 3350		
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	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		

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 in vivo depletion of NK cells and in vitro activation of NK cells.

#### 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

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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** Material Safety Datasheet documentation #20438 available at:

Information https://www.bio-rad-antibodies.com/SDS/MCA1266SBV440

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Regulatory For research purposes only

# Related Products

# **Recommended Useful 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

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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 'M374261:201028'

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