

## Datasheet: MCA1427PE

**BATCH NUMBER 150165**

<b>Description:</b>	MOUSE ANTI RAT CD161:RPE
<b>Specificity:</b>	CD161
<b>Other names:</b>	NKR-P1A
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	10/78
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

### 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 [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Rat		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1 ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		

5% Sucrose

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<b>Immunogen</b>	Purified splenic NK cells from the LEW rat strain.
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P27471</a> <a href="#">Related reagents</a> <a href="#">A4KWA1</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">362443</a> Klrb1a <a href="#">Related reagents</a> <a href="#">25192</a> Klrb1b <a href="#">Related reagents</a>
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<b>Synonyms</b>	Nkrp1a, Nkrp1b
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<b>RRID</b>	AB_321597
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<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63.Ag8653 myeloma cell line.
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<b>Specificity</b>	<p><b>Mouse anti Rat CD161 antibody, clone 10/78</b> recognizes the rat Killer cell lectin-like receptor subfamily B protein, also known as NKR-PI or CD161. CD161 is a 233 amino acid ~60 kDa type II single pass protein containing a single <a href="#">C-type lectin</a> domain. CD161 is expressed on rat NK cells and T cell subpopulations. CD161 exists in 2 forms NKR-PIa and NKR-PIb, Mouse anti Rat CD161 antibody, clone 10/78 recognizes both forms of CD161 (<a href="#">Li et al. 2003</a>). Clone 10/78 competes with another anti CD161 clone, 3.2.3 for binding to antigen.</p> <p>Mouse anti Rat CD161 antibody, clone 10/78 has been successfully employed for the <i>in vivo</i> depletion of rat NK cells in an experimental obesity model (<a href="#">Wrann et al. 2010</a>).</p>
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Dyugovskaya, L. <i>et al.</i> (2003) Phenotypic profile and functional characterization of rat lymph node-derived gammadelta T cells: implication in the immune response to cytomegalovirus. <a href="#">Immunology. 108 (2): 129-36.</a></li><li>2. Sedgwick, J.D. <i>et al.</i> (1998) Central nervous system microglial cell activation and proliferation follows direct interaction with tissue-infiltrating T cell blasts. <a href="#">J Immunol. 160 (11): 5320-30.</a></li><li>3. Schwartzkopff, J. <i>et al.</i> (2010) NK cell depletion delays corneal allograft rejection in baby rats. <a href="#">Mol Vis. 16: 1928-35.</a></li><li>4. Lyons, A. <i>et al.</i> (2011) Atorvastatin prevents age-related and amyloid-beta-induced microglial activation by blocking interferon-gamma release from natural killer cells in the brain. <a href="#">J Neuroinflammation. 8: 27.</a></li><li>5. Ali, S. <i>et al.</i> (2005) Combined immunostimulation and conditional cytotoxic gene therapy provide long-term survival in a large glioma model. <a href="#">Cancer Res. 65: 7194-204.</a></li><li>6. Banerjee, S. <i>et al.</i> (2003) Development of organised conjunctival leucocyte aggregates after corneal transplantation in rats. <a href="#">Br J Ophthalmol. 87: 1515-22.</a></li></ol>
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a Rat Model of Lung Transplantation. [Exp Clin Transplant. 17 \(1\): 84-92.](#)  
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**Storage** Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #20487 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1427PE>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA1209PE\)](#)

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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](https://bio-rad-antibodies.com/datasheets)  
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