

# Datasheet: MCA1967

**BATCH NUMBER 152116**

<b>Description:</b>	RAT ANTI MOUSE CD44v6
<b>Specificity:</b>	CD44v6
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	9A4
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## 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			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.**

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5mg/ml

Immunogen	GST-CD44v6 fusion protein.
External Database Links	<p><b>UniProt:</b>  <a href="#">P15379</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">12505</a>    Cd44    <a href="#">Related reagents</a></p>
Synonyms	Ly-24
RRID	AB_323213
Fusion Partners	Spleen cells from immunized female DA rats were fused with cells from the SP/0 myeloma.
Specificity	<p><b>Rat anti Mouse CD44v6, clone 9A4</b> recognizes an epitope encoded by exon v6 on the variant portion of murine CD44. CD44v6 has been identified along with ICAM-1 as a co-receptor for Met and in mammary epithelia appears to act at the primary Met co-receptor (<a href="#">Di-Cicco et al. 2015</a>).</p> <p>Rat anti Mouse CD44v6, clone 9A4 has been used successfully for the identification of CD44v6 expressing cells by immunofluorescence (<a href="#">Di-Cicco et al. 2015</a>), western blotting (<a href="#">Lo et al. 2012</a>). Immunohistochemistry (<a href="#">Weilenga et al. 1999</a>) along with ELISA and flow cytometry (<a href="#">Weiss et al. 1997</a>).</p>
References	<ol style="list-style-type: none"> <li>1. Weiss JM <i>et al.</i> (1997) An essential role for CD44 variant isoforms in epidermal Langerhans cell and blood dendritic cell function. <a href="#">J Cell Biol. 137 (5): 1137-47.</a></li> <li>2. Wielenga VJ <i>et al.</i> (1999) Expression of CD44 in Apc and Tcf mutant mice implies regulation by the WNT pathway. <a href="#">Am J Pathol. 154 (2): 515-23.</a></li> <li>3. Lo, B. <i>et al.</i> (2012) Lkb1 regulates organogenesis and early oncogenesis along AMPK-dependent and -independent pathways. <a href="#">J Cell Biol. 199: 1117-30.</a></li> <li>4. Katagiri, Y.U. <i>et al.</i> (1999) CD44 variants but not CD44s cooperate with beta1-containing integrins to permit cells to bind to osteopontin independently of arginine-glycine-aspartic acid, thereby stimulating cell motility and chemotaxis. <a href="#">Cancer Res. 59: 219-26.</a></li> <li>5. Hebbard, L. <i>et al.</i> (2000) CD44 expression and regulation during mammary gland development and function. <a href="#">J Cell Sci. 113: 2619-30.</a></li> <li>6. Wallach-Dayana, S.B. <i>et al.</i> (2008) DNA vaccination with CD44 variant isoform reduces mammary tumor local growth and lung metastasis. <a href="#">Mol Cancer Ther. 7: 1615-23.</a></li> <li>7. Boon, E.M. <i>et al.</i> (2006) Activation of Wnt signaling in the intestinal mucosa of Apc +/-min mice does not cause overexpression of the receptor tyrosine kinase Met. <a href="#">Cancer Sci. 97: 710-5.</a></li> <li>8. Khaldoyanidi, S. <i>et al.</i> (2002) CD44 variant-specific antibodies trigger hemopoiesis by selective release of cytokines from bone marrow macrophages. <a href="#">Blood. 99: 3955-61.</a></li> <li>9. Matrosova, V.Y. <i>et al.</i> (2004) Hyaluronic acid facilitates the recovery of hematopoiesis following 5-fluorouracil administration. <a href="#">Stem Cells. 22: 544-55.</a></li> <li>10. Rochman, M. <i>et al.</i> (2000) The CD44 receptor of lymphoma cells: structure-function</li> </ol>

- relationships and mechanism of activation. [Cell Adhes Commun. 7: 331-47.](#)
11. Seroby, N. *et al.* (2005) Nicotinic acetylcholine receptor-mediated stimulation of endothelial cells results in the arrest of haematopoietic progenitor cells on endothelium. [Br J Haematol. 129: 257-65.](#)
12. Termeer, C. *et al.* (2003) Targeting dendritic cells with CD44 monoclonal antibodies selectively inhibits the proliferation of naive CD4+ T-helper cells by induction of FAS-independent T-cell apoptosis. [Immunology. 109: 32-40.](#)
13. Nakagawa, H. *et al.* (2014) Loss of liver E-cadherin induces sclerosing cholangitis and promotes carcinogenesis. [Proc Natl Acad Sci U S A. 111\(3\):1090-5.](#)
14. Di-Cicco, A. *et al.* (2015) Paracrine Met signaling triggers epithelial-mesenchymal transition in mammary luminal progenitors, affecting their fate. [Elife. 2015 Jul 13;4.](#)
15. Shibata, W. *et al.* (2017) *Helicobacter*-induced gastric inflammation alters the properties of gastric tissue stem/progenitor cells. [BMC Gastroenterol. 17 \(1\): 145.](#)

#### Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

#### Guarantee

12 months from date of despatch

#### Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1967>  
10040

#### Regulatory

For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

#### North & South America

Tel: +1 800 265 7376  
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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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