Datasheet: MCA1967

BATCH NUMBER 159148

Description:	RAT ANTI MOUSE CD44v6
Specificity:	CD44v6
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	9A4
Isotype:	IgG1
Quantity:	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.

	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.**

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

Immunogen	GST-CD44v6 fusion protein.
External Database Links	**UniProt:** P15379 Related reagents **Entrez Gene:** 12505 Cd44 Related reagents
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	**Rat anti Mouse CD44v6, clone 9A4** 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 (Di-Cicco *et al.* 2015). Rat anti Mouse CD44v6, clone 9A4 has been used successfully for the identification of CD44v6 expressing cells by immunofluorescence (Di-Cicco *et al.* 2015), western blotting (Lo *et al.* 2012). Immunohistochemistry (Weilenga *et al.* 1999) along with ELISA and flow cytometry (Weiss *et al.* 1997).
References	1. Weiss JM *et al.* (1997) An essential role for CD44 variant isoforms in epidermal Langerhans cell and blood dendritic cell function. J Cell Biol. 137 (5): 1137-47. 2. Wielenga VJ *et al.* (1999) Expression of CD44 in Apc and Tcf mutant mice implies regulation by the WNT pathway. Am J Pathol. 154 (2): 515-23. 3. Lo, B. *et al.* (2012) Lkb1 regulates organogenesis and early oncogenesis along AMPK-dependent and -independent pathways. J Cell Biol. 199: 1117-30. 4. Katagiri, Y.U. *et al.* (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. Cancer Res. 59: 219-26. 5. Hebbard, L. *et al.* (2000) CD44 expression and regulation during mammary gland development and function. J Cell Sci. 113: 2619-30. 6. Wallach-Dayan, S.B. *et al.* (2008) DNA vaccination with CD44 variant isoform reduces mammary tumor local growth and lung metastasis. Mol Cancer Ther. 7: 1615-23. 7. Boon, E.M. *et al.* (2006) Activation of Wnt signaling in the intestinal mucosa of Apc +/min mice does not cause overexpression of the receptor tyrosine kinase Met. Cancer Sci. 97: 710-5. 8. Khaldoyanidi, S. *et al.* (2002) CD44 variant-specific antibodies trigger hemopoiesis by selective release of cytokines from bone marrow macrophages. Blood. 99: 3955-61. 9. Matrosova, V.Y. *et al.* (2004) Hyaluronic acid facilitates the recovery of hematopoiesis following 5-fluorouracil administration. Stem Cells. 22: 544-55. 10. Rochman, M. *et al.* (2000) The CD44 receptor of lymphoma cells: structure-function

relationships and mechanism of activation. Cell Adhes Commun. 7: 331-47.
11. Serobyan, 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	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
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...)	DyLight®800
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®550, DyLight®650, DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos., Biotin

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com
Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com
Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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

'M383717:210513'

Printed on 18 Jan 2024