

Datasheet: MCA1728

Description:	MOUSE ANTI HUMAN CD44v4
Specificity:	CD44v4
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	VFF-11
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	■			1/50
Immunohistology - Frozen	■			1/50 - 1/500
Immunohistology - Paraffin (1)	■			
ELISA			■	
Immunoprecipitation			■	
Western Blotting	■			

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.

(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	Human
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Glutathione S Transferase (GST) fusion protein corresponding to the variable domains (v3 to v10) of human CD44.
External Database Links	UniProt: P16070 Related reagents

Entrez Gene:[960](#) CD44 [Related reagents](#)

Synonyms	LHR, MDU2, MDU3, MIC4
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the P3X63Ag8.653 myeloma cell line.
Specificity	Mouse anti Human CD44v4 antibody, clone VFF-11 specifically recognizes an epitope encoded by exon v4 on the variant portion of human CD44. CD44v4 is strongly expressed on some breast cancer cell lines, notably epithelial-like BT-20 cells where v4 containing isoforms possess functional E-selectin ligand activity mediating cell adhesion under physiological flow conditions (Shirure <i>et al.</i> 2014).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	1. Koopman, G. <i>et al.</i> (1993) Activated human lymphocytes and aggressive non-Hodgkin's lymphomas express a homologue of the rat metastasis-associated variant of CD44. J Exp Med. 177 (4): 897-904. 2. Hanley, W.D. <i>et al.</i> (2005) Variant isoforms of CD44 are P- and L-selectin ligands on colon carcinoma cells. FASEB J. 20: 337-9. 3. Rajarajan, A. <i>et al.</i> (2012) CD44 expression in oro-pharyngeal carcinoma tissues and cell lines. PLoS One. 7: e28776. 4. Chandrasekaran, S. <i>et al.</i> (2012) Effect of homotypic and heterotypic interaction in 3D on the E-selectin mediated adhesive properties of breast cancer cell lines Biomaterials. 33: 9037-48. 5. El-Sharkawy, M.M. <i>et al.</i> (2003) CD44 expression and soluble CD44 as a potential marker of tumor load in pediatric acute leukemia. J Egypt Nat Cancer Inst. 15: 129-35. 6. Shirure, V.S. <i>et al.</i> (2015) CD44 variant isoforms expressed by breast cancer cells are functional E-selectin ligands under flow conditions. Am J Physiol Cell Physiol. 308 (1): C68-78. 7. Hudson, D.L. <i>et al.</i> (1995) CD44 is the major peanut lectin-binding glycoprotein of human epidermal keratinocytes and plays a role in intercellular adhesion. J Cell Sci. 108: 1959-70. 8. De Sousa, P. A. (2009) Method for differentiation of stem cells. U.S. Patent Application: US20090123430 A1 9. Lallana, E. <i>et al.</i> (2017) Chitosan/Hyaluronic Acid Nanoparticles: Rational Design Revisited for RNA Delivery. Mol Pharm. 14 (7): 2422-2436.
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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: 10094: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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
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Printed on 04 May 2018