Datasheet: MCA1729

BATCH NUMBER 162358

Description:	MOUSE ANTI HUMAN CD44v5
Specificity:	CD44v5
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	VFF-8
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	▪			1/10
Immunohistology - Frozen	▪			1/10
Immunohistology - Paraffin (1)	▪			1/10
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. 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.

(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	<0.1% Sodium Azide (NaN_3)
Approx. Protein	IgG concentration 0.1 mg/ml

Concentrations	
External Database Links	**UniProt:** P16070 Related reagents **Entrez Gene:** 960 CD44 Related reagents
Synonyms	LHR, MDU2, MDU3, MIC4
RRID	AB_322692
Specificity	**Mouse anti Human CD44v5 antibody, clone VFF-8** specifically recognises an epitope encoded by exon v5 on the variant region of human CD44. CD44 is a type I transmembrane glycoprotein of variable molecular weight ranging from ~90 kDa to ~220 kDa depending on alternate splicing of the variable region exons and on the degree of glycosylation. CD44 is expressed on multiple cell types and is involved in multiple functions including cell-cell interactions and cell-extracellular matrix binding. Hyaluronan, a high molecular weight polysaccharide component of the extracellular matrix acts as the principal ligand for the CD44 receptor (Laurent and Fraser 1992). CD44 isoforms containing one or more sequences encoded by the variant region exons have a much more restricted expression pattern both in terms of organ specificity and immune activation (Mackay *et al.* 1994). CD44 isoforms bearing the v5 exon product have been implicated in various neoplasms including breast cancer (Tempfer *et al.* 1996), renal cell carcinoma (Wu *et al.* 2003) and cervical cancer metastases (Kainz *et al.* 1996). Mouse anti Human CD44v5 antibody has proved a useful reagent for the imunohistochemical or flow cytometric evaluation of CD44 variants containing the v5 exon product expression in normal and neoplastic cells (Ringel *et al.* 2001)
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. Bànkfalvi, A. *et al.* (1998) Gains and losses of CD44 expression during breast carcinogenesis and tumour progression. Histopathology. 33 (2): 107-16. 2. Alam, T.N. *et al.* (2004) Differential expression of CD44 during human prostate epithelial cell differentiation. J Histochem Cytochem. 52: 1083-90. 3. Rajarajan, A. *et al.* (2012) CD44 expression in oro-pharyngeal carcinoma tissues and cell lines. PLoS One. 7: e28776. 4. Hanley, W.D. *et al.* (2006) Variant isoforms of CD44 are P- and L-selectin ligands on colon carcinoma cells. FASEB J. 20: 337-9. 5. Chaiyarit, P. *et al.* (2008) Alteration of the expression of CD44 [corrected] isoforms in oral epithelia and saliva from patients with oral lichen planus. J Clin Immunol. 28: 26-34. 6. Shirure, V.S. *et al.* (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. Spadea, A. *et al.* (2019) Evaluating the Efficiency of Hyaluronic Acid for Tumor

Targeting via CD44. Mol Pharm. 16 (6): 2481-93.
8. Noori, M.S. *et al.* (2018) An adhesion based approach for the detection of esophageal cancer. Integr Biol (Camb). 10 (12): 747-57.

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/MCA1729 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, 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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M389324:210806'

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