

Datasheet: MCA1729

BATCH NUMBER 169715

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 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
Preparation	Antibody purified from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% sodium azide (NaN ₃)

Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
External Database Links	<p>UniProt: P16070 Related reagents</p> <p>Entrez Gene: 960 CD44 Related reagents</p>
Synonyms	LHR, MDU2, MDU3, MIC4
RRID	AB_322692
Specificity	<p>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).</p> <p>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).</p> <p>Mouse anti Human CD44v5 antibody has proved a useful reagent for the immunohistochemical or flow cytometric evaluation of CD44 variants containing the v5 exon product expression in normal and neoplastic cells (Ringel et al. 2001)</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> 1. Bànkfalvi, A. <i>et al.</i> (1998) Gains and losses of CD44 expression during breast carcinogenesis and tumour progression. Histopathology. 33 (2): 107-16. 2. Alam, T.N. <i>et al.</i> (2004) Differential expression of CD44 during human prostate epithelial cell differentiation. J Histochem Cytochem. 52: 1083-90. 3. Rajarajan, A. <i>et al.</i> (2012) CD44 expression in oro-pharyngeal carcinoma tissues and cell lines. PLoS One. 7: e28776. 4. Hanley, W.D. <i>et al.</i> (2006) Variant isoforms of CD44 are P- and L-selectin ligands on colon carcinoma cells. FASEB J. 20: 337-9. 5. Chaiyarit, P. <i>et al.</i> (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. <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. 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>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#), [DyLight®650](#), [DyLight®680](#), [DyLight®800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M415484:230105'

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