

Datasheet: MCA5950F

Description:	MOUSE ANTI HUMAN CD44v6:FITC
Specificity:	CD44v6
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	VFF-18
Isotype:	IgG1
Quantity:	100 TESTS

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	▪			Neat - 1/5

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.

Target Species	Human		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	TRIS buffered saline		
Preservative	0.02% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Immunogen	Glutathione S Transferase (GST) fusion protein corresponding to the variable domain v6 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 CD44v6, clone VFF-18 recognizes a centrally located 14mer epitope encoded by amino acid residues 18-31, within variant exon 6 (v6) of human CD44 ([Reinisch *et al.* 1998](#)). CD44 is a member of a polymorphic family of transmembrane glycoproteins, which exists as a broadly expressed ~80-90 kDa standard form (CD44s), and also as numerous splice variants, due to extensive alternative splicing and post-translational modifications.

CD44s is involved in cell adhesion, lymphocyte activation, signal transduction, haematopoiesis, recirculation and homing, and CD44v6 mediates leukocyte to endothelial cell attachment and rolling, as well as homing to sites of inflammation and peripheral organs.

As well as its role as a receptor for hyaluronic acid (HA), CD44s also interacts with other ligands including matrix metalloproteinases (MMPs), fibronectin and collagens, and has been linked with cancer of the breast, colon, stomach and squamous cell carcinomas (HNSCC) of the head and neck, as well as being a prognostic marker for non-Hodgkin's lymphoma.

The variant isoforms of CD44 (CD44v) are highly expressed on epithelial cells but not leukocytes, and their association with cell transformation and cancer is also well established, supported by numerous immunohistochemical investigations including those looking at HNSCC. Mouse anti Human CD44v6, clone VFF-18 binds to CD44v6 with high affinity when compared with anti-CD44v6 clone 2F10, and is suitable for detecting CD44v6 in inflammatory bowel disease (IBD) ([Reinisch *et al.* 1998](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul

References

1. Foekens, J.A. *et al.* (1999) Prognostic value of CD44 variant expression in primary breast cancer. [Int J Cancer. 84 \(3\): 209-15.](#)
2. Odenthal, J. *et al.* (2018) Targeting CD44v6 for fluorescence-guided surgery in head and neck squamous cell carcinoma. [Sci Rep. 8 \(1\): 10467.](#)

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. This product is photosensitive and should be protected from light.

Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #10058 available at: https://www.bio-rad-antibodies.com/SDS/MCA5950F 10058
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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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://www.bio-rad-antibodies.com/datasheets)

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