

## Datasheet: MCA5950GA

**BATCH NUMBER 151433**

<b>Description:</b>	MOUSE ANTI HUMAN CD44v6
<b>Specificity:</b>	CD44v6
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	VFF-18
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen	▪			1.0 - 2.0ug/ml
Immunohistology - Paraffin (1)	▪			1.0 - 2.0ug/ml
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. Tris/EDTA buffer pH 9.0 or Sodium citrate buffer pH 6.0 is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**Immunogen** Glutathione S Transferase (GST) fusion protein corresponding to the variable domain v6 of human CD44.

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## External Database Links

### UniProt:

[P16070](#)   [Related reagents](#)

### Entrez Gene:

[960](#) CD44   [Related reagents](#)

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**Synonyms** LHR, MDU2, MDU3, MIC4

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**Fusion Partners** Spleen cells from immunized BALB/c mice were fused with cells of the P3X63Ag8.653 myeloma cell line.

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## Specificity

**Mouse anti Human CD44v6, clone VFF-18**, specifically 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.

Many functional properties of CD44s have been determined, including cell adhesion, lymphocyte activation, signal transduction, haematopoiesis, recirculation and homing, and CD44v6 has been particularly implicated in 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 studies including those looking at HNSCC. Studies looking at the role of CD44v6 in Crohn's disease, in which clone VFF-18 was generated and characterized, revealed that 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](#)).

Mouse anti Human CD44v6, clone VFF-18 is suitable for detecting CD44v6 in inflammatory bowel disease (IBD) ([Reinisch et al. 1998](#)).

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**Flow Cytometry** Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul

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- References**
1. Reinisch, W. *et al.* (1998) Poor diagnostic value of colonic CD44v6 expression and serum concentrations of its soluble form in the differentiation of ulcerative colitis from Crohn's disease. [Gut. 43 \(3\): 375-82.](#)
  2. Foekens, J.A. *et al.* (1999) Prognostic value of CD44 variant expression in primary breast cancer. [Int J Cancer. 84 \(3\): 209-15.](#)
  3. Adolf, G.R. and Patzelt, E. (1999) Monoclonal antibody against CD44v6 [US patent pub No: US08750359](#)
  4. Odenthal, J. *et al.* (2018) Targeting CD44v6 for fluorescence-guided surgery in head and neck squamous cell carcinoma. [Sci Rep. 8 \(1\): 10467.](#)
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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA5950GA>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [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 (Fc) (STAR120...) [FITC](#), [HRP](#)
- Goat Anti Mouse IgG (STAR77...) [HRP](#)

### Recommended Negative Controls

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

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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