

## Datasheet: MCA1870F

**BATCH NUMBER 172139**

<b>Description:</b>	MOUSE ANTI HUMAN CD326:FITC
<b>Specificity:</b>	CD326
<b>Other names:</b>	Ep-CAM
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	VU-1D9
<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	▪			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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% sodium azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% bovine serum albumin		
<b>Approx. Protein</b>	0.1mg/ml		

## Concentrations

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**Immunogen** HG9 cell line (small cell lung carcinoma)

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## External Database Links

### UniProt:

[P16422](#)    [Related reagents](#)

### Entrez Gene:

[4072](#)    EPCAM    [Related reagents](#)

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**Synonyms** GA733-2, M1S2, M4S1, MIC18, TACSTD1, TROP1

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**RRID** AB\_931705

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**Fusion Partners** Spleen cells from immunized mice were fused with cells of the mouse SP2/0 myeloma cell line

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## Specificity

**Mouse anti Human CD326 antibody, clone VU-1D9** recognizes epithelial cell adhesion molecule (Ep-CAM), a ~34 kDa cell surface antigen otherwise known as CD326, MOC31 or Ber-EP4. CD326 is a type 1 transmembrane glycoprotein, expressed on the basolateral cell membrane of the majority of epithelial tissues, with the exception of adult squamous epithelium, hepatocytes and gastric epithelial cells. Ep-CAM expression has been reported to be a possible marker of early malignancy, with expression being increased in tumor cells.

Ep-CAM expression has been reported to be a possible marker of early malignancy, with expression being increased in tumor cells, and *de novo* expression being seen in dysplastic squamous epithelium.

Mouse anti Human CD326 antibody, clone VU-1D9, has been validated for use on the [Genesis Cell Isolation System with the CelSelect Slide™ technology](#).

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**Flow Cytometry** Use 10µl of the suggested working dilution to label 1x10<sup>6</sup> cells in 100µl

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## References

1. Koga, Y. *et al.* (2008) Improved recovery of exfoliated colonocytes from feces using newly developed immunomagnetic beads. [Gastroenterol Res Pract. 2008: 605273.](#)
2. Fillmore, C.M. *et al.* (2010) Estrogen expands breast cancer stem-like cells through paracrine FGF/Tbx3 signaling. [Proc Natl Acad Sci U S A. 107 \(50\): 21737-42.](#)
3. Murakata, A. *et al.* (2011) Gene expression signature of the gross morphology in hepatocellular carcinoma. [Ann Surg. 253: 94-100.](#)
4. Keller, P.J. *et al.* (2012) Defining the cellular precursors to human breast cancer. [Proc Natl Acad Sci U S A. 109 \(8\): 2772-7.](#)
5. Jeong, H.T. *et al.* (2012) MRI features of hepatocellular carcinoma expressing progenitor cell markers. [Liver Int. 32: 430-40.](#)
6. Armstrong, A.J. *et al.* (2019) Pharmacodynamic study of radium-223 in men with bone metastatic castration resistant prostate cancer. [PLoS One. 14 \(5\): e0216934.](#)
7. Eman, M. *et al.* (2025) Flow Cytometry in the Detection of Abnormal Cells and Cell

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<b>Further Reading</b>	1. Winter, M.J. <i>et al.</i> (2003) The epithelial cell adhesion molecule (Ep-CAM) as a morphoregulatory molecule is a tool in surgical pathology. <a href="#">Am J Pathol. 163 (6): 2139-48.</a>
<b>Storage</b>	<p>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.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1870F">https://www.bio-rad-antibodies.com/SDS/MCA1870F</a>
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Negative Controls

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

### Recommended Useful Reagents

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

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)

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