

## Datasheet: MCA1870EL

<b>Description:</b>	MOUSE ANTI HUMAN CD326:Low Endotoxin
<b>Specificity:</b>	CD326
<b>Other names:</b>	Ep-CAM
<b>Format:</b>	Low Endotoxin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	VU-1D9
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.5 mg

## Product Details

**RRID** AB\_2098663

### 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	▪			1/10 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
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 protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Approx. Protein</b>	1 mg/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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**Fusion Partners** Spleen cells from immunised 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

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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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## Histology Positive Control Tissue

Large Bowel

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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.](#)
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## Further Reading

1. Winter, M.J. *et al.* (2003) The epithelial cell adhesion molecule (Ep-CAM) as a morphoregulatory molecule is a tool in surgical pathology. [Am J Pathol. 163 \(6\): 2139-48.](#)
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## Storage

Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. 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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## Shelf Life

18 months from date of despatch.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10162 available at:  
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®549](#),  
[DyLight®649](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin \(MCA928EL\)](#)

**North & South  
America** Tel: +1 800 265 7376  
Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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