

## 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

### 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 Concentrations</b>	1 mg/ml
<b>Immunogen</b>	HG9 cell line (small cell lung carcinoma)
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P16422</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">4072</a>    EPCAM    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	GA733-2, M1S2, M4S1, MIC18, TACSTD1, TROP1
<b>RRID</b>	AB_2098663
<b>Fusion Partners</b>	Spleen cells from immunised mice were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Human CD326 antibody, clone VU-1D9</b> 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.</p> <p>Ep-CAM expression has been reported to be a possible marker of early malignancy, with expression being increased in tumor cells, and <i>de novo</i> expression being seen in dysplastic squamous epithelium</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
<b>Histology Positive Control Tissue</b>	Large Bowel
<b>References</b>	<ol style="list-style-type: none"> <li>1. Koga, Y. <i>et al.</i> (2008) Improved recovery of exfoliated colonocytes from feces using newly developed immunomagnetic beads. <a href="#">Gastroenterol Res Pract. 2008: 605273.</a></li> <li>2. Fillmore, C.M. <i>et al.</i> (2010) Estrogen expands breast cancer stem-like cells through paracrine FGF/Tbx3 signaling. <a href="#">Proc Natl Acad Sci U S A. 107 (50): 21737-42.</a></li> <li>3. Murakata, A. <i>et al.</i> (2011) Gene expression signature of the gross morphology in hepatocellular carcinoma. <a href="#">Ann Surg. 253: 94-100.</a></li> <li>4. Keller, P.J. <i>et al.</i> (2012) Defining the cellular precursors to human breast cancer. <a href="#">Proc Natl Acad Sci U S A. 109 (8): 2772-7.</a></li> <li>5. Jeong, H.T. <i>et al.</i> (2012) MRI features of hepatocellular carcinoma expressing progenitor cell markers. <a href="#">Liver Int. 32: 430-40.</a></li> </ol>

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.](#)

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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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**Guarantee** 12 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>

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**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@680](#),  
[DyLight@800](#), [FITC](#), [HRP](#)

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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://bio-rad-antibodies.com/datasheets)  
'M365836:200529'

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