

Datasheet: MCA1870G

Description:	MOUSE ANTI HUMAN CD326
Specificity:	CD326
Other names:	Ep-CAM
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	VU-1D9
Isotype:	IgG1
Quantity:	0.2 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			1/200
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.

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

Carrier Free	Yes
Approx. Protein Concentrations	1 mg/ml
Immunogen	HG9 cell line (small cell lung carcinoma)
External Database Links	<p>UniProt: P16422 Related reagents</p> <p>Entrez Gene: 4072 EPCAM Related reagents</p>
Synonyms	GA733-2, M1S2, M4S1, MIC18, TACSTD1, TROP1
RRID	AB_931706
Fusion Partners	Spleen cells from immunised mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	<p>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.</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>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
Histology Positive Control Tissue	Large Bowel
Western Blotting	MCA1870G detects a band of approximately 38kDa in HT-29 cell lysates
References	<ol style="list-style-type: none"> 1. Koga, Y. <i>et al.</i> (2008) Improved recovery of exfoliated colonocytes from feces using newly developed immunomagnetic beads. Gastroenterol Res Pract. 2008: 605273. 2. Fillmore, C.M. <i>et al.</i> (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. <i>et al.</i> (2011) Gene expression signature of the gross morphology in hepatocellular carcinoma. Ann Surg. 253: 94-100. 4. Keller, P.J. <i>et al.</i> (2012) Defining the cellular precursors to human breast cancer. Proc Natl Acad Sci U S A. 109 (8): 2772-7. 5. Jeong, H.T. <i>et al.</i> (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.](#)

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.](#)

Storage Store at +4°C or at -20°C if preferred.
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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

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 \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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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