

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

RRID AB_931706

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 (NaN₃)

Carrier Free Yes

Approx. Protein 1 mg/ml

Concentrations

Immunogen HG9 cell line (small cell lung carcinoma)

External Database Links

UniProt:

[P16422](#) [Related reagents](#)

Entrez Gene:

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

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

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

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

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

Histology Positive Control Tissue Large Bowel

Western Blotting MCA1870G detects a band of approximately 38kDa in HT-29 cell lysates

References

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 +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.

Shelf Life	18 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®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

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

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Printed on 11 Jan 2019