

Datasheet: MCA1870F

BATCH NUMBER 166316

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

	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.

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

Concentrations

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](#)

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	<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>
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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 10µl of the suggested working dilution to label 1x10 ⁶ 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.](#)

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 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.

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.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1870F10041
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Regulatory	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 \(BUF070B\)](#)

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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
'M411900:221108'

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