

Datasheet: MCA1870A647

**BATCH NUMBER 1808**

<b>Description:</b>	MOUSE ANTI HUMAN CD326:Alexa Fluor® 647
<b>Specificity:</b>	CD326
<b>Other names:</b>	Ep-CAM
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	VU-1D9
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS/1ml

## 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	▪			Neat

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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 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>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>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> <li>6. Armstrong, A.J. <i>et al.</i> (2019) Pharmacodynamic study of radium-223 in men with bone metastatic castration resistant prostate cancer. <a href="#">PLoS One. 14 (5): e0216934.</a></li> </ol>
<b>Further Reading</b>	1. Winter, M.J. <i>et al.</i> (2003) The epithelial cell adhesion molecule (Ep-CAM) as a morphoregulatory molecule is a tool in surgical pathology. <a href="#">Am J Pathol. 163 (6): 2139-48.</a>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p>

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 #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1870A647>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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