

Datasheet: MCA1870A647

Description:	MOUSE ANTI HUMAN CD326:Alexa Fluor® 647
Specificity:	CD326
Other names:	Ep-CAM
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	VU-1D9
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Human		
Product Form	Purified IgG conjugated to Alexa Fluor 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
Preparation	Purified IgG prepared by affinity chromatography on Protein A		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05 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
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 1×10^6 cells in 100ul
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. <i>et al.</i> (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. <i>et al.</i> (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	<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

Guarantee 12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

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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