

Datasheet: MCA2162XZ

Description:	MOUSE ANTI HUMAN CD326:Preservative Free
Specificity:	CD326
Other names:	Ep-CAM
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	MOC-31
Isotype:	IgG1
Quantity:	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	▪			10ug/ml
Immunohistology - Frozen	▪			10ug/ml
Immunohistology - Paraffin (1)	▪			
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 antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None Present
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

External Database Links

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

Entrez Gene:

Synonyms	GA733-2, M1S2, M4S1, MIC18, TACSTD1, TROP1
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Specificity	<p>Mouse anti Human CD326 antibody, clone MOC31 recognizes human CD326, also known as Epithelial cell adhesion molecule, Ep-CAM, Adenocarcinoma-associated antigen, Cell surface glycoprotein Trop-1, Epithelial glycoprotein 314, KS 1/4 antigen, Major gastrointestinal tumor-associated protein GA733-2 and Tumor-associated calcium signal transducer 1. Human CD326 is a 314 amino acid ~40 kDa type 1 single pass transmembrane glycoprotein containing a single thyroglobulin domain,</p> <p>CD326 is expressed on the basolateral membrane of cells by the majority of epithelial tissues, with the exception of adult squamous epithelium and some specific epithelial cell types including hepatocytes and gastric epithelial cells.</p> <p>CD326 expression has been reported to be a possible marker of early malignancy, with expression being increased in tumour cells, and <i>de novo</i> expression being seen in dysplastic squamous epithelium (Spizzo et al. 2002).</p>
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Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
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Histology Positive Control Tissue	Lung carcinoma
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References	<ol style="list-style-type: none">1. Souhami, R.L. <i>et al.</i> (1987) Antigens of small-cell lung cancer. First International Workshop. Lancet. 2 (8554): 325-6.2. Ralhan R <i>et al.</i> (2010) Nuclear and cytoplasmic accumulation of Ep-ICD is frequently detected in human epithelial cancers. PLoS One. 5 (11): e14130.3. Ralhan, R. <i>et al.</i> (2010) EpCAM nuclear localization identifies aggressive thyroid cancer and is a marker for poor prognosis. BMC Cancer. 10: 331.4. Dankers, P.Y. <i>et al.</i> (2010) The use of fibrous, supramolecular membranes and human tubular cells for renal epithelial tissue engineering: towards a suitable membrane for a bioartificial kidney. Macromol Biosci. 10: 1345-54.5. Kawashima, R. <i>et al.</i> (2011) EpCAM- and EGFR-targeted selective gene therapy for biliary cancers using Z33-fiber-modified adenovirus. Int J Cancer. 129: 1244-53.6. Assi J <i>et al.</i> (2015) Nuclear Ep-ICD Expression Is a Predictor of Poor Prognosis in "Low Risk" Prostate Adenocarcinomas. PLoS One. 10 (2): e0107586.7. Kunavisarut T <i>et al.</i> (2012) Immunohistochemical analysis based Ep-ICD subcellular localization index (ESLI) is a novel marker for metastatic papillary thyroid microcarcinoma. BMC Cancer. 12: 523.8. He HC <i>et al.</i> (2012) An Ep-ICD based index is a marker of aggressiveness and poor prognosis in thyroid carcinoma. PLoS One. 7 (9): e42893.9. Srivastava G <i>et al.</i> (2014) Nuclear Ep-ICD accumulation predicts aggressive clinical course in early stage breast cancer patients. BMC Cancer. 14: 726.
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Further Reading	<ol style="list-style-type: none">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.
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Storage	<p>Store at -20°C only.</p> <p>This product should be stored undiluted.</p>
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Storage in frost-free freezers is not recommended. 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.
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Health And Safety Information	Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	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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