

Datasheet: MCA850H

Description:	MOUSE ANTI HUMAN CD326
Specificity:	CD326
Other names:	Ep-CAM
Format:	Ready To Use
Product Type:	Monoclonal Antibody
Clone:	HEA-125
Isotype:	IgG1
Quantity:	5 ml

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			▪	
Immunohistology - Frozen	▪			Neat
Immunohistology - Paraffin (1)	▪			Neat
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			

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, ready to use.
Preparation	Purified IgG prepared by affinity chromatography from tissue culture supernatant
Buffer Solution	Phosphate buffered saline

Preservative Stabilisers	0.09% Sodium Azide 0.5% Bovine Serum Albumin
Immunogen	HT29 carcinoma cell line.
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
RRID	AB_322944
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of a mouse myeloma cell line.
Specificity	<p>Mouse anti human CD236 antibody, clone HEA-125 recognizes CD326 also known as Adenocarcinoma-associated antigen, Epithelial glycoprotein 314 or Epithelial Cell Adhesion Molecule (Ep-CAM). CD326 is a 314 amino acid ~34 kDa single pass type I transmembrane glycoprotein nearing a single thyroglobulin type-1 domain (UniProt: P16422).</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 tumor cells (Balzar et al. 1999), and <i>de novo</i> expression being seen in dysplastic squamous epithelium (Winter et al. 2003). CD326 has been identified independently by a number of groups, and it has been known by a variety of names including Epithelial Specific Antigen, MOC31 (Proca et al. 2000) and Ber-EP4 (Patriarca et al. 2012).</p>
Histology Positive Control Tissue	Human colon.
References	<ol style="list-style-type: none"> Momburg, F. <i>et al.</i> (1987) Immunohistochemical study of the expression of a Mr 34,000 human epithelium-specific surface glycoprotein in normal and malignant tissues. Cancer Res. 47 (11): 2883-91. Simon, B. <i>et al.</i> (1990) Epithelial glycoprotein is a member of a family of epithelial cell surface antigens homologous to nidogen, a matrix adhesion protein. Proc Natl Acad Sci U S A. 87 (7): 2755-9. Kemmner, W. <i>et al.</i> (1992) Separation of tumor cells from a suspension of dissociated human colorectal carcinoma tissue by means of monoclonal antibody-coated magnetic beads. J Immunol Methods. 147 (2): 197-200.

4. Inada, M. *et al.* (2008) Stage-specific regulation of adhesion molecule expression segregates epithelial stem/progenitor cells in fetal and adult human livers. [Hepatol Int. 2 \(1\): 50-62.](#)
5. Chowdhury, F. *et al.* (2010) Interactions between endothelial cells and epithelial cells in a combined cell model of airway mucosa: effects on tight junction permeability. [Exp Lung Res. 36 \(1\): 1-11.](#)

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 Store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA850H>
10041

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

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