Datasheet: MCA850G

### Product Details

**Description:** MOUSE ANTI HUMAN CD326

**Specificity:** CD326

**Other names:** Ep-CAM

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** HEA-125

**Isotype:** IgG1

**Quantity:** 0.1 mg

### 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).

<table>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Neat</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin (1)</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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<td>Immunofluorescence</td>
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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 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

### 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

### Approx. Protein Concentrations
0.1 mg/ml

### Immunogen
HT29 carcinoma cell line.

### External Database Links
- **UniProt:** P16422 [Related reagents](https://www.uniprot.org/uniprot/P16422)

### Synonyms
- GA733-2, M1S2, M4S1, MIC18, TACSTD1, TROP1

### RRID
AB_322943

### Fusion Partners
Spleen cells from immunized BALB/c mice were fused with cells of a mouse myeloma cell line.

### Specificity
**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](https://www.uniprot.org/uniprot/P16422)).

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.

CD326 expression has been reported to be a possible marker of early malignancy, with expression being increased in tumor cells ([Balzar et al. 1999](https://www.ncbi.nlm.nih.gov/pubmed/10080661)), and *de novo* expression being seen in dysplastic squamous epithelium ([Winter et al. 2003](https://www.ncbi.nlm.nih.gov/pubmed/12985024)). 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](https://www.ncbi.nlm.nih.gov/pubmed/10710204)) and Ber-EP4 ([Patriarca et al. 2012](https://www.ncbi.nlm.nih.gov/pubmed/22741207)).

### Flow Cytometry
Use 5ul of the suggested working dilution to label $10^6$ cells or 100ul cell suspension.

### Histology Positive Control Tissue
Human colon & appendix

### References
2. Simon, B. *et al.* (1990) Epithelial glycoprotein is a member of a family of epithelial cell


**Further Reading**


**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.

**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**


**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

**Recommended Negative Controls**