

## Product datasheet for **BM2274XL**

### EPCAM Mouse Monoclonal Antibody [Clone ID: HEA125]

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Clone Name:           | HEA125  |
| Applications:         | IF, IHC, WB   |
| Recommended Dilution: | <b>Immunoblotting.</b><br><b>Cytological Material.</b><br><b>Immunofluorescence microscopy.</b><br><b>Immunohistochemistry on Frozen Sections.</b><br><b>Immunohistochemistry on Paraffin-Embedded Tissue.</b><br><b>Cellsorting</b><br><b>Pretreatment:</b> With paraffin embedded sections, protease pre-treatment is required prior to antibody application.<br><b>Working Dilutions: Ready-to-use for immunohistochemical application.</b><br><b>Incubation Time:</b> 1 h at RT, extended with paraffin.  |
| Reactivity:           | Human   |
| Host:                 | Mouse   |
| Isotype:              | IgG1  |
| Clonality:            | Monoclonal  |
| Immunogen:            | HT-29 colon carcinoma cell line.  |
| Specificity:          | Clone HEA125 recognizes Ep-CAM (polypeptide reacting: Mr 40,000 epithelium-specific cell surface glycoprotein).<br>HEA125 represents an excellent marker to discriminate epithelial from mesothelial structures. The antigen has been detected in all carcinoma types tested (18 different origins). A subset of squamous cell carcinoma is negative.<br><b>Tested Reactivities on Cultured Cell Lines:</b> All carcinoma cell lines tested so far; particularly strong reaction with colon carcinoma cell lines (HT-29, WiDr, SW1116).<br><b>Polypeptide Reacting:</b> Mr 40,000 human epithelium-specific cell surface glycoprotein (Ep-CAM). |



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| <b>Formulation:</b>      | PBS, pH 7.4<br>State: Purified<br>State: Liquid purified IgG fraction<br>Stabilizer: 0.5% BSA<br>Preservative: 0.09% Sodium Azide   |
| <b>Purification:</b>     | Affinity Chromatography on Protein A  |
| <b>Conjugation:</b>      | Unconjugated  |
| <b>Storage:</b>          | Store the antibody undiluted at 2-8°C.  |
| <b>Stability:</b>        | Shelf life: one year from despatch.   |
| <b>Gene Name:</b>        | epithelial cell adhesion molecule   |
| <b>Database Link:</b>    | <a href="#">Entrez Gene 4072 Human P16422</a>   |
| <b>Background:</b>       | Epithelial Cell Adhesion Molecule (EpCAM) is a 40 kDa cell surface antigen. This antigen has been identified independently by a number of groups, and has been known by a variety of names. Several monoclonal antibodies have been raised against EpCAM, many of which have been described as tumour specific molecules on carcinomas. EpCAM is a Type 1 transmembrane glycoprotein. It 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. EpCAM expression has been reported to be a possible marker of early malignancy, with expression being increased in tumour cells, and de novo expression being seen in dysplastic squamous epithelium. |
| <b>Synonyms:</b>         | Ep-CAM, Epithelial cell adhesion molecule, GA733-2, EGP314, KSA, TROP1, Trop-1, M1S2, M4S1, MIC18   |
| <b>Protein Families:</b> | ES Cell Differentiation/IPS, Transmembrane  |