

Product datasheet for **DM2014A**

EPCAM Mouse Monoclonal Antibody [Clone ID: MOC-31]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MOC-31
Applications:	FC, IHC
Recommended Dilution:	Flow Cytometry: Use 10 µl of 10 µg/ml diluted antibody to label 10 ⁶ cells in 100 µl. Immunohistochemistry on Frozen Sections: 10 µg/ml. Immunohistochemistry on Paraffin Sections: Antigen retrieval is required using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose. Recommended Positive Control: Lung carcinoma tissue.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody recognises the 40kDa cell surface antigen known as CD326.
Formulation:	PBS, pH 7.4, Azide Free State: Azide Free State: Liquid purified IgG fraction Stabilizer: None Preservative: None
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	epithelial cell adhesion molecule
Database Link:	Entrez Gene 4072 Human P16422



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Background:

Lung cancer is a heterogeneous disease, which can be subdivided into five major types based on histopathological criteria like squamous cell carcinomas, adenocarcinoma, large cell carcinoma, adenosquamous carcinoma and small cell lung cancer (SCLC). A number of important prognostic characteristics have been identified to include the extent of disease and especially for SCLC, tumor sensitivity to chemotherapy. Epithelial Cell Adhesion Molecule (EpCAM) is a 40 kDa cell surface antigen.

This antigen has been identified independently by a number of groups, and it has been known by a variety of names including Epithelial Cell Adhesion Molecule (Ep-CAM), Epithelial Specific Antigen, MOC31 and Ber-EP4. Several monoclonal antibodies have been raised against CD326, many of which have been described as tumour specific molecules on carcinomas.

CD326 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. CD326 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.

Synonyms:

Ep-CAM, Epithelial cell adhesion molecule, GA733-2, EGP314, KSA, TROP1, Trop-1, M1S2, M4S1, MIC18