
EP-CAM (Clone Ber-EP4) Mouse Monoclonal Antibody

Specificity: Human. Others-not known

Immunogen: MCF-7 human breast carcinoma cell line

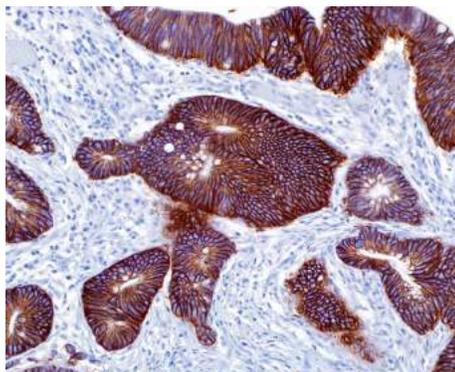
Ig Class: IgG1/ κ

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of tissue with proteolytic enzymes should be performed prior to staining. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:50-200; *Positive Control:* Colon carcinoma. *Cellular Localization:* Cytoplasmic. *Intended Use:* In vitro diagnosis (IVD).

Description: Epithelial cell adhesion molecule (EP-CAM) is an approximate 40 kDa transmembrane glycoprotein. In paraffin sections, the protein is detected with many antibodies like anti-Ber-EP₄ and anti-MOC-31. EP-CAM (Ber-EP₄) is normally expressed at the basolateral membrane of cells in the majority of epithelial tissues. It is not expressed in adult squamous epithelia, hepatocytes, myoepithelial cells, mesothelial cells or fibroblasts. EP-CAM is found in the large majority of adenocarcinomas of most sites (50-100%) in various studies; as well as neuroendocrine tumors, including small cell carcinoma. Renal clear cell carcinoma, renal oncocytoma and hepatocellular carcinoma stain in a minority of the cases, but papillary renal cell carcinoma, chromophobe renal cell carcinoma and cholangiocarcinoma stain with anti-Ber EP₄ at a higher percentage. Basal cell carcinoma is anti-Ber-EP₄ positive in almost all skin squamous carcinoma. EP-CAM can be of great help in the differentiating malignant involvement in the peritoneal and pleural cavities.

Supplied As: Purified antibody with 0.2% BSA and 15mM sodium azide.



Formalin-fixed, paraffin-embedded human colon adenocarcinoma stained with Ber-EP4 antibody using peroxidase-conjugate and DAB chromogen. Note the membranous staining of tumor cells

Cat. #Z2314 (1.0 ml)

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