

## Ep-CAM / CD326 (Extracellular Domain) (Epithelial Marker) Antibody

Mouse Monoclonal Antibody [Clone Ber-EP4]

Catalog No	Format	Size
4072-MSM43-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4072-MSM43-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4072-MSM43-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

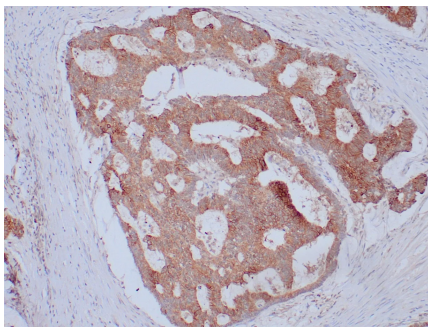
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

<b>Clone</b>	Ber-EP4
<b>Gene Name</b>	EPCAM
<b>Immunogen</b>	Human breast cancer MCF-7 cells
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	40-43kDa
<b>Cellular Localization</b>	Cell junction, Lateral cell membrane, Tight junction
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	MCF-7 or HT29 cells. Breast tumor.

*\*Optimal dilution for a specific application should be determined.*

### Product Images for Ep-CAM / CD326 (Extracellular Domain) (Epithelial Marker) Antibody



Formalin-fixed, paraffin-embedded human colon adenocarcinoma stained with EpCAM Mouse Monoclonal Antibody (Ber-EP4). HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.

**Specificity & Comments**

Recognizes a 40-43kDa transmembrane epithelial glycoprotein, identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM). It is expressed on baso-lateral cell surface in most simple epithelia and a vast majority of carcinomas with the exception of adult squamous epithelium, hepatocytes and gastric epithelial cells. This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. It is also useful in distinguishing serous carcinomas of the ovary from mesothelioma. It has been reported that this epithelial antigen plays an important role as a tumor-cell marker in lymph nodes from patients with esophageal carcinoma otherwise classified as node-negative. Epithelial antigen has also been suggested as a discriminator between basal cell and baso-squamous carcinomas, and squamous cell carcinoma of the skin.

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**Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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**Supplied As**

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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**Storage and Stability**

Store at 2 to 8°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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**Research Areas**

Stem Cell Differentiation

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