

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

Mouse Monoclonal Antibody [Clone Ber-EP4]

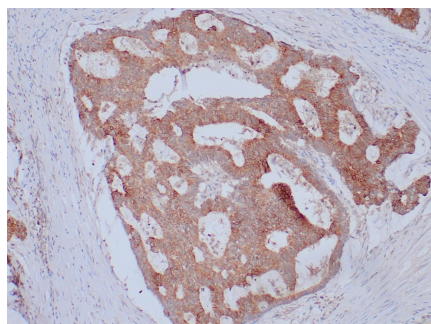
Catalog No	Format	Size
4072-MSM43-P0	Purified Ab with BSA and Azide	200ug/ml
4072-MSM43-P1	Purified Ab with BSA and Azide	200ug/ml
4072-MSM43-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

Applications	Tested Dillution
Flow Cytometry (Flow)	1-2ug/million cells
Immunohistochemistry (IHC)	1-2ug/ml

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

### Research Areas

Stem Cell Differentiation

### Known Applications & Suggested Dilutions

Flow Cytometry (0.5-1ug/million cells) | Immunohistochemistry (Formalin-fixed) (1:100-1:200 for 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&degC followed by cooling at RT for 20 minutes) | Optimal dilution for a specific application should be determined.

### 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.

### Supplied As

Tissue culture supernatant with 0.05% Azide. Contact us if you require it in a different format.

### Storage and Stability

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