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

Mouse Monoclonal Antibody [Clone EGP40/826]

Catalog No	Format	Size
4072-MSM6-CF488-100T	Purified Ab conjugated to CF488	0.5 ml at 100ug/ml

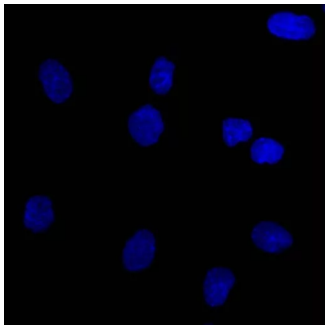
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

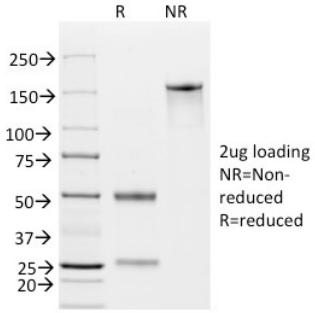
Clone	EGP40/826
Gene Name	EPCAM
Immunogen	Recombinant fragment (around aa 20-65) from the N-terminus of human TACSTD1/EpCAM protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1
Mol. Weight of Antigen	40-43kDa
Cellular Localization	Cell junction, Cell surface, Lateral cell membrane, Tight junction
Species Reactivity	Human
Positive Control	MCF-7, HT29 or SK-OV-3 cells (FACS/IF). Breast carcinoma (IHC).

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

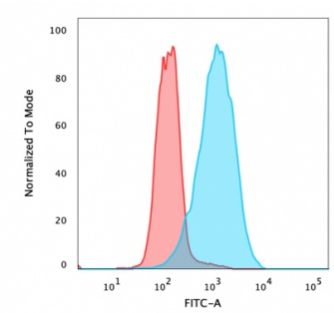
Product Images for Ep-CAM / CD326 (Extracellular Domain) (Epithelial Marker) Antibody



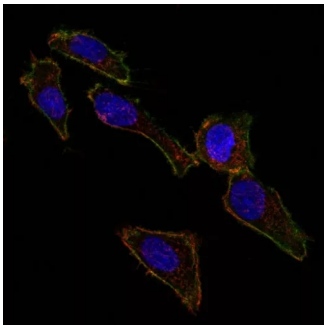
Confocal Immunofluorescent analysis of SK-OV-3 cells using CF488-labeled Isotype Control Mouse Monoclonal Antibody IgG1-(Green). DAPI was used to stain the cell nuclei (blue). (Negative Control)



SDS-PAGE Analysis Purified EpCAM Mouse Monoclonal Antibody (EGP40/826). Confirmation of Purity and Integrity of Antibody.



Flow Cytometric Analysis of PFA fixed MCF-7 cells using EpCAM Mouse Monoclonal Antibody (EGP40/826) followed by Goat anti-mouse IgG-CF488 (Blue); Isotype Control (Red).



Confocal immunofluorescent analysis of SK-OV-3 cells using CF488-labeled EpCAM Mouse Monoclonal Antibody (EGP40/826) (green). DyLight 554 Phalloidin-labeled F-actin filaments (Red). DAPI stained nuclei (blue).

Specificity & Comments

Recognizes a 40-43kDa transmembrane epithelial glycoprotein, identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM). Ep-CAM is expressed on baso-lateral cell surface in most simple epithelia and a vast majority of carcinomas. 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. 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.

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.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Stem Cell Differentiation

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.