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

Mouse Monoclonal Antibody [Clone rEGP40/1372]

Catalog No	Format	Size
4072-MSM22-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4072-MSM22-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4072-MSM22-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

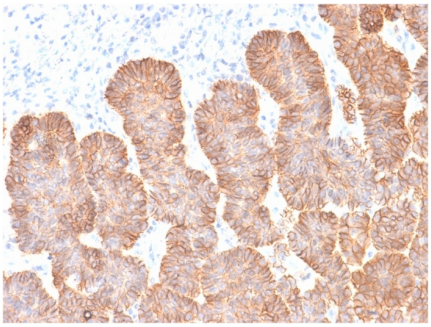
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

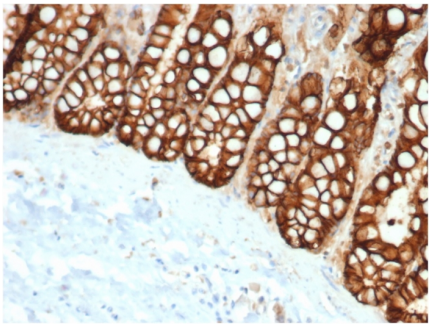
Clone	rEGP40/1372
Gene Name	EPCAM
Immunogen	Recombinant fragment from the extracellular domain of human EpCAM protein (around aa100-224) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	40-43kDa
Cellular Localization	Cell junction, Lateral cell membrane, Tight junction
Species Reactivity	Cat, Dog, Human
Positive Control	MCF-7 or HT29 cells. Human ovarian carcinoma. Human Intestine, HEK293.

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

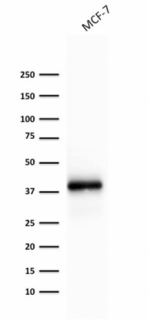
Product Images for Recombinant Ep-CAM / CD326 (Extracellular Domain) (Epithelial Marker) Antibody



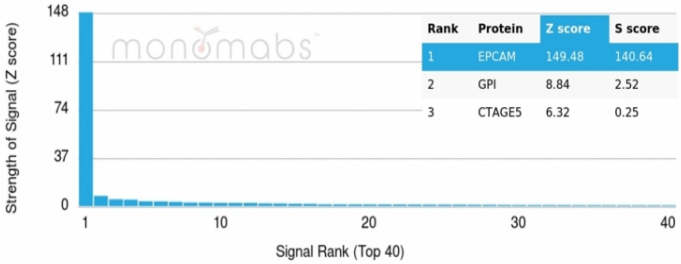
Formalin-fixed, paraffin-embedded human skin tissuestained with EpCAM Recombinant Mouse Monoclonal Antibody (rEGP40/1372).



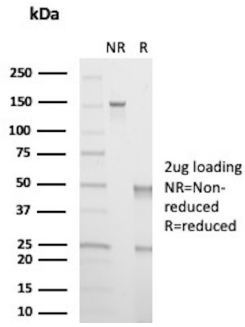
Formalin-fixed, paraffin-embedded canine (dog) bladder stained with EpCAM Recombinant Mouse Monoclonal Antibody (rEGP40/1372).



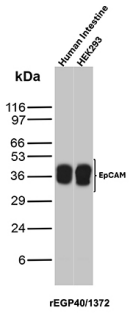
Western blot analysis of MCF-7 cell lysate using EpCAM Recombinant Mouse Monoclonal Antibody (rEGP40/1372).



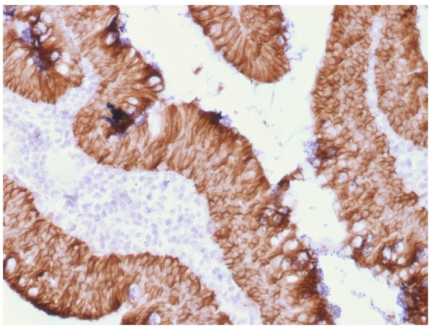
Analysis of Protein Array containing more than 19,000 full-length human proteinsusing EpCAM Monospecific Recombinant Mouse Monoclonal Antibody (rEGP40/1372). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE Analysis of Purified Epithelial cell adhesion molecule Recombinant Mouse Monoclonal Antibody (rEGP40/1372). Confirmation of Purity and Integrity of Antibody.



Western blot analysis of Human Intestine and HEK293 lysates using EpCAM Mouse Recombinant Monoclonal Antibody (rEGP40/1372).



Formalin-fixed, paraffin-embedded human rectal massstained with EpCAM Recombinant Mouse Monoclonal Antibody (rEGP40/1372).

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Specificity & Comments

EGP40 is a 40-43kDa transmembrane epithelial glycoprotein, also identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM). It is expressed on basolateral 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. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.

Supplied As

200ug/ml of Ab produced in HEK293 cell mammalian-based expression system. 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