

Mouse Ep-CAM/CD326 Monoclonal Antibody | anti-Ep-CAM antibody

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

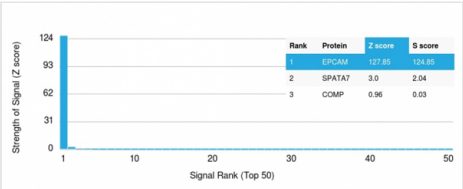
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23890	Mouse	Human. Others not known.	Flow Cytometry, Functional Assay, Immunofluorescence, Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

Ep-CAM/CD326; Monoclonal Antibody; Ep-CAM/CD326 (Extracellular Domain) (Epithelial Marker); Adenocarcinoma-associated Antigen; Cell Surface Glycoprotein Trop-1; EGP2; EGP314; EGP40; Epithelial Cell Adhesion Molecule; Epithelial Glycoprotein 314; ESA; KSA; TACD1; TROP1; Tumor-associated Calcium Signal Transducer 1 (TACSTD1); ECS-1; Epidermal Surface Antigen 1; ESA1; FLOT2; Flotillin-2; Membrane Component; Chromosome 17; Surface Marker-1 (M17S1); REG-1; Reggie-1; Reggie-2; anti-Ep-CAM antibody

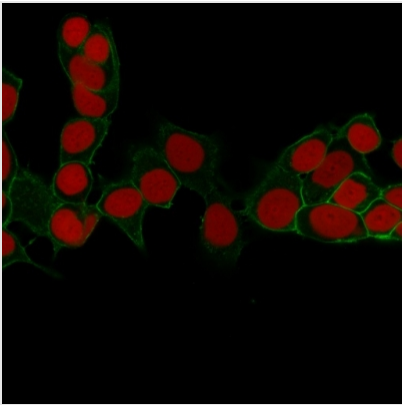
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG1
Clone Number	EGP40/1372
Specificity	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 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. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.
Form/Format	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.
Sequence Length	314
Applicable Applications for anti-Ep-CAM antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	FC/FACS: 0.5-1ug/million cells IF: 1-2ug/ml WB: 0.5-1ug/ml IHC-F: 0.5-1ug/ml for 30 min at RT; Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.
Immunogen	Recombinant human EpCAM protein fragment from the extracellular domain (aa77-202)
Cellular Localization	Cell Surface
Hu-chromosome Location	2p21
Positive Control	HT29 cells or Ovarian carcinoma
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



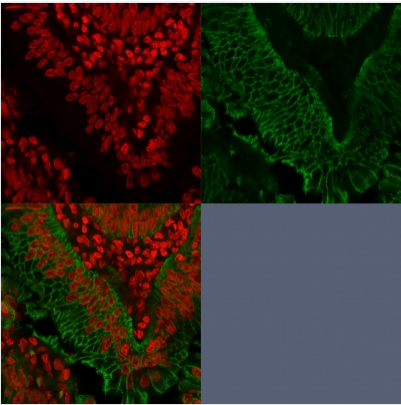
Application Data

Analysis of Protein Array containing >19, 000 full-length human proteins using EpCAM Mouse Monoclonal Antibody (EGP40/1372) 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 HuProt™ 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 HuProt™ 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 be 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.



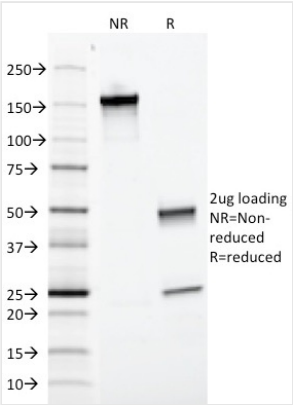
IF (Immunofluorescence)

Confocal Immunofluorescence of MCF-7 Cells EpCAM Mouse Monoclonal Antibody (EGP40/1372) labeled with CF488 (Green); Reddot is used to label the nuclei.



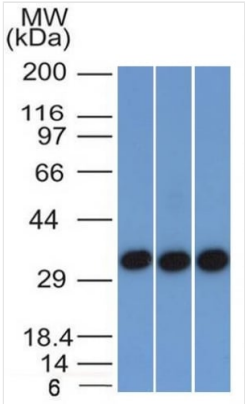
IF (Immunofluorescence)

Confocal Immunofluorescence of human Colo-rectal Carcinoma. EpCAM Mouse Monoclonal Antibody (EGP40/1372) labeled with CF488 (Green); Reddot is used to label the nuclei.



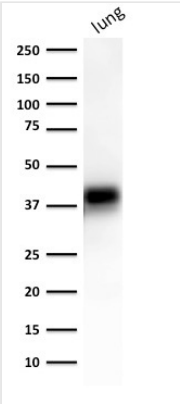
SDS-PAGE

SDS-PAGE Analysis Purified EpCAM Mouse Monoclonal Antibody (EGP40/1372). Confirmation of Integrity and Purity of Antibody.



WB (Western Blot)

Western Blot of 293, A431 and HCT116 Cell Lysate using EpCAM Mouse Monoclonal Antibody (EGP40/1372).



WB (Western Blot)

Western Blot of human lung lysate using EpCAM Mouse Monoclonal Antibody (EGP40/1372).

ADDITIONAL INFORMATION

References	Litvinov SV et. al. J Cell Biol, 1994, 125:437-46. Tsubura A et. al. J Cut Pathol, 1992, 19:73-9.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	218505670
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NCBI GeneID	4072
NCBI Accession #	NP_002345.2
NCBI GenBank Nucleotide #	NM_002354.2
UniProt Accession #	P16422; P18180; Q6FG26; Q6FG49; Q96C47; Q9UCD0
Molecular Weight	40-43kDa
NCBI Official Full Name	epithelial cell adhesion molecule
NCBI Official Synonym Full Names	epithelial cell adhesion molecule
NCBI Official Symbol	EPCAM
NCBI Official Synonym Symbols	ESA; KSA; M4S1; MK-1; DIAR5; EGP-2; EGP40; KS1/4; MIC18; TROP1; EGP314; HNPCC8; TACSTD1
NCBI Protein Information	epithelial cell adhesion molecule
UniProt Protein Name	Epithelial cell adhesion molecule
UniProt Gene Name	EPCAM
UniProt Synonym Gene Names	GA733-2; M1S2; M4S1; MIC18; TACSTD1; TROP1; Ep-CAM; EGP; EGP314; hEGP314

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/ep-cam-cd326-antibody-clone-egp40-1372-flow-cytometry-immunofluorescence-western-blot-immunohistochemistry-elisa/23890>