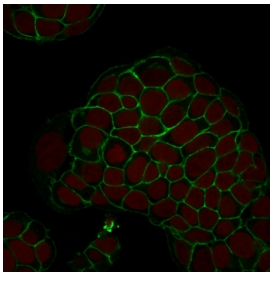
Ep-CAM Antibody [clone EGP40/1798] (V3463)

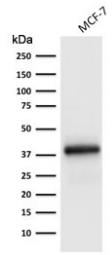
Catalog No.	Formulation	Size
V3463-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3463-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3463SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

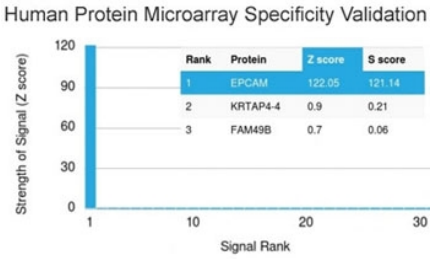
Availability	1-3 business days
Species Reactivity	Human, Dog, Cat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	EGP40/1798
Purity	Protein G affinity chromatography
UniProt	P16422
Localization	Cell surface, cytoplasmic
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Flow Cytometry : 0.5-1ug/10^6 cells Immunofluorescence : 1-2ug/ml Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This Ep-CAM antibody is available for research use only.



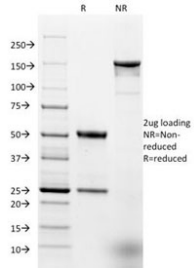
Immunofluorescent staining of human MCF-7 cells with Ep-CAM antibody (green, clone EGP40/1798) and Reddot nuclear stain (red).



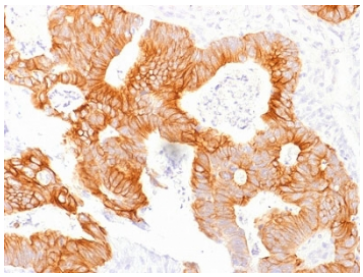
Western blot testing of human MCF7 cell lysate with Ep-CAM antibody (clone EGP40/1798). Expected molecular weight: ~35 kDa (unmodified), 40-43 kDa (glycosylated).



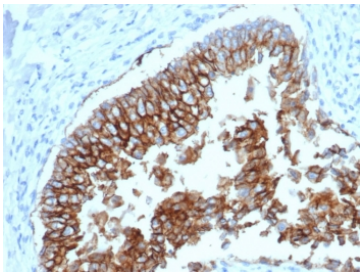
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Ep-CAM antibody (clone EGP40/1798). These results demonstrate the foremost specificity of the EGP40/1798 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



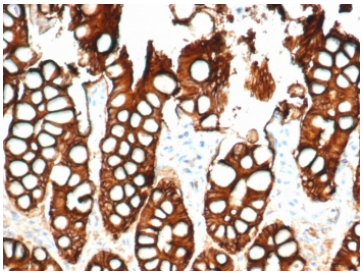
SDS-PAGE analysis of purified, BSA-free Ep-CAM antibody (clone EGP40/1798) as confirmation of integrity and purity.



IHC testing of FFPE human colorectal carcinoma and Ep-CAM antibody (clone EGP40/1798). Required HIER: steam sections in pH6 citrate buffer for 10-20 min.



IHC testing of FFPE dog bladder and Ep-CAM antibody (clone EGP40/1798). Required HIER: steam sections in pH6 citrate buffer for 10-20 min.



IHC testing of FFPE cat small intestine and Ep-CAM antibody (clone EGP40/1798). Required HIER: steam sections in pH6 citrate buffer for 10-20 min.

Description

EGP40 is a 40-43 kDa 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.

Application Notes

Titering of the Ep-CAM antibody may be required for optimal performance.

Immunogen

A human partial recombinant protein corresponding to amino acids 100-224 (extracellular domain) was used as the immunogen for the Ep-CAM antibody.

Storage

Store the Ep-CAM antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).