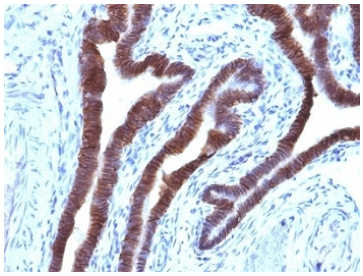
EpCAM Antibody / Cytoplasmic domain [clone EGP40/1110] (V2686)

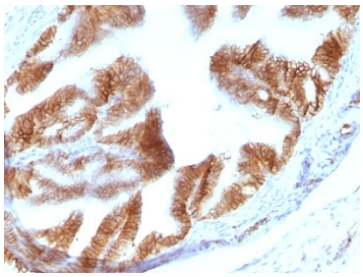
Catalog No.	Formulation	Size
V2686-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2686-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2686SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2686IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

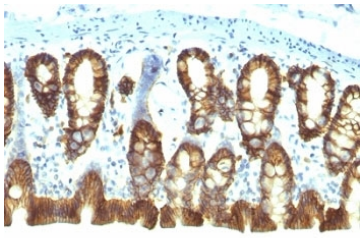
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Dog, Cat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	EGP40/1110
Purity	Protein G affinity chromatography
UniProt	P16422
Localization	Cell surface, cytoplasmic
Applications	Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This EpCAM antibody is available for research use only.



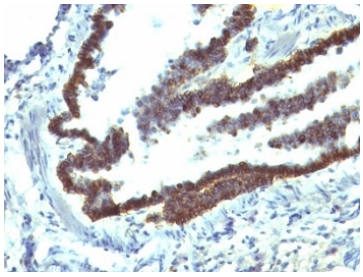
IHC: Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with EpCAM antibody (clone EGP40/1110).



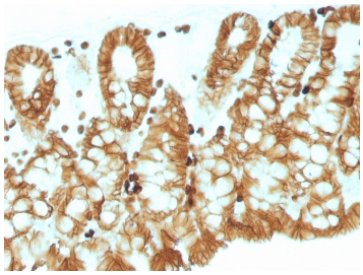
IHC: Formalin-fixed, paraffin-embedded rat Oviduct stained with EpCAM antibody (clone EGP40/1110).



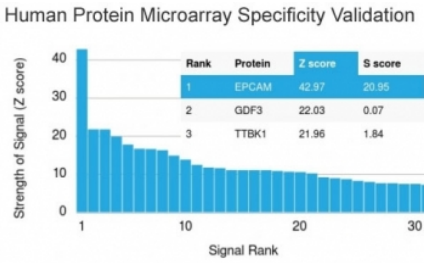
IHC: Formalin-fixed, paraffin-embedded rat colon stained with EpCAM antibody (clone EGP40/1110).



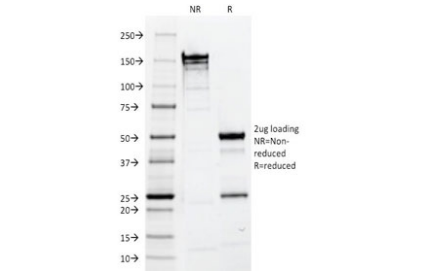
IHC: Formalin-fixed, paraffin-embedded rat lung stained with EpCAM antibody (clone EGP40/1110).



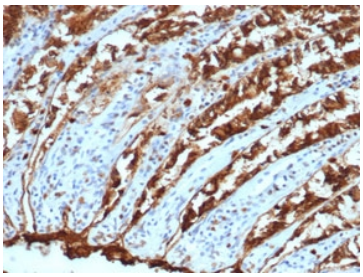
IHC testing of FFPE mouse colon tissue with EpCAM antibody (clone EGP40/1110). Required HIER: boil tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.



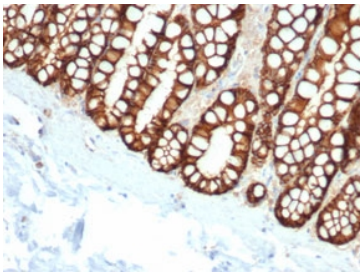
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using EpCAM antibody (clone EGP40/1110). These results demonstrate the foremost specificity of the EGP40/1110 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination 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 EpCAM antibody (clone EGP40/1110) as confirmation of integrity and purity.



IHC staining of FFPE dog colon with EpCAM antibody (clone EGP40/1110). HIER: boil tissue sections in pH9 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE cat small intestine with EpCAM antibody(clone EGP40/1110). HIER: boil tissue sections in pH9 EDTA for 20 min and allow to cool before testing.

Description

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.

Application Notes

Optimal dilution of the EpCAM antibody should be determined by the researcher.

1. 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 min
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A portion of amino acids 289-314 (cytoplasmic domain) was used as the immunogen for the EpCAM antibody.

Storage

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