

Product Datasheet

EpCAM Antibody / Extracellular domain (orb606357)

Catalog Number	orb606357
Category	Antibodies
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.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG1, kappa
Conjugation	Unconjugated
Reactivity	Canine, Feline, Human
Purification	Protein G affinity chromatography
Immunogen	A human partial recombinant protein corresponding to amino acids 100-224 (extracellular domain) was used as the immunogen for the anti-EpCAM antibody.
UniProt ID	P16422
Tested applications	FACS, IF, IHC-P, WB
Dilution range	Flow cytometry: 1-2ug/10 ⁶ cells, Immunofluorescence: 1-2ug/ml, Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT

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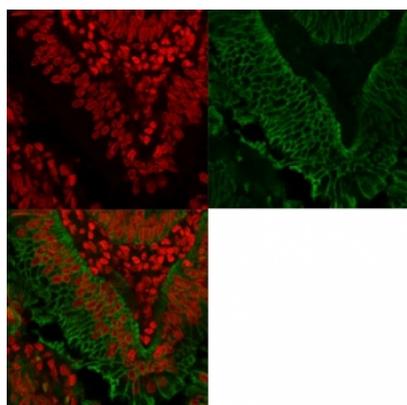
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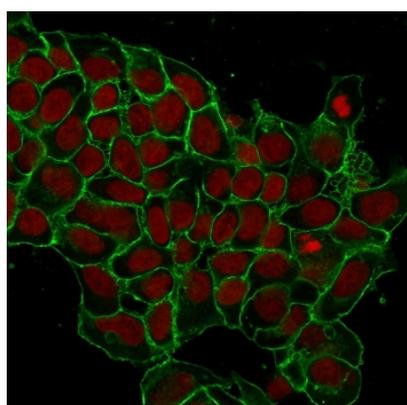
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Application notes	Titering of the anti-EpCAM antibody may be required for optimal performance.1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Antibody Type	Primary Antibody
Clone Number	EGP40/1372
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only



Immunofluorescent staining of FFPE human colorectal carcinoma with anti-EpCAM antibody (green) and Reddot nuclear stain (red).



Immunofluorescent staining of human MCF-7 cells with anti-EpCAM antibody (green, clone EGP40/1372) and Reddot nuclear stain (red).

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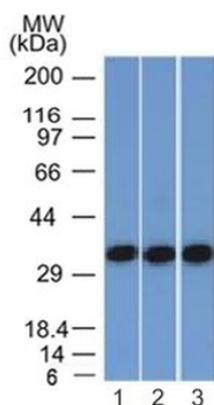
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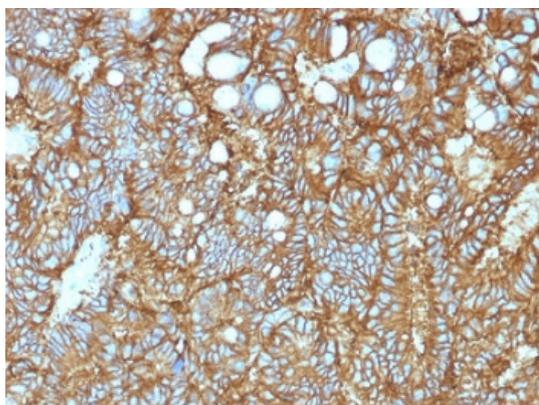
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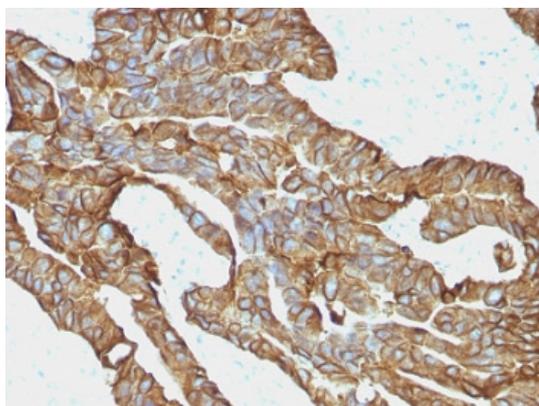
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Western blot testing of human 1) HEK293, 2) A431 and 3) HCT116 cell lysate with anti-EpCAM antibody (clone EGP40/1372). Expected molecular weight: ~35 kDa (unmodified), 40-43 kDa (glycosylated).



IHC testing of FFPE human hepatocellular carcinoma and anti-EpCAM antibody (clone EGP40/1372). Required HIER: steam sections in pH9 10mM Tris with 1mM EDTA for 10-20 min.



IHC testing of FFPE human colorectal carcinoma and anti-EpCAM antibody (clone EGP40/1372). Required HIER: steam sections in pH9 10mM Tris with 1mM EDTA for 10-20 min.

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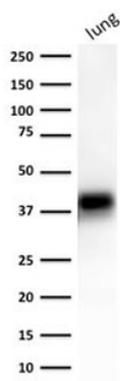
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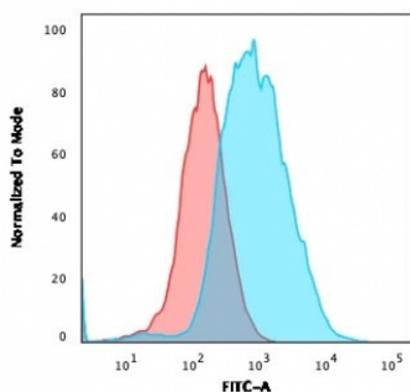
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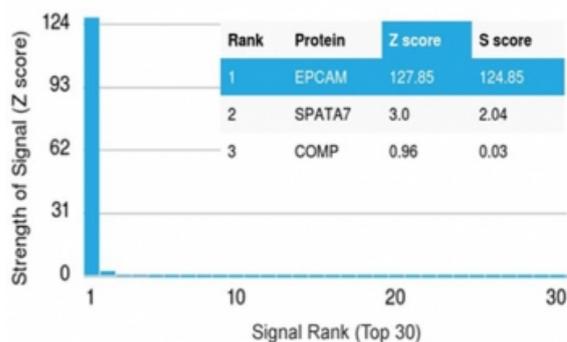


Western blot testing of human lung lysate with anti-EpCAM antibody (clone EGP40/1372). Expected molecular weight: ~35 kDa (unmodified), 40-43 kDa (glycosylated).



Flow cytometry testing of PFA-fixed human MCF7 cells with anti-EpCAM antibody (clone EGP40/1372); Red = isotype control, Blue = anti-EpCAM antibody.

Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19,000 full-length human proteins using the anti-EpCAM antibody (clone EGP40/1372). These results demonstrate the foremost specificity of the EGP40/1372 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.

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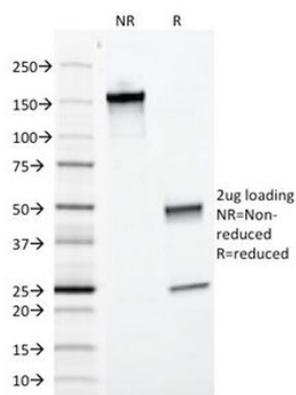
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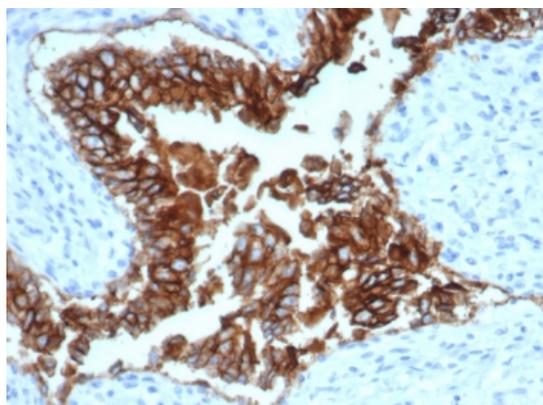
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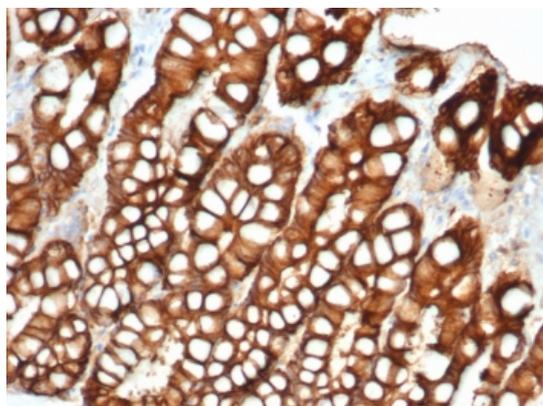
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SDS-PAGE analysis of purified, BSA-free anti-EpCAM antibody (clone EGP40/1372) as confirmation of integrity and purity.



IHC testing of FFPE dog bladder and EpCAM antibody (clone EGP40/1372). HIER: steam sections in pH9 EDTA for 10-20 min.



IHC testing of FFPE cat small intestine and EpCAM antibody (clone EGP40/1372). HIER: steam sections in pH9 EDTA for 10-20 min.

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