

## Anti-EpCAM, mouse monoclonal (BS14)

BSH-7402-100 (0.1ml), BSH-7402-1 (1 ml)



<b>Clonality:</b>	Mouse monoclonal antibody
<b>Clone:</b>	BS14
<b>Application:</b>	IHC-P (1:100 – 1:400)
<b>Species Reactivity:</b>	Human
<b>Control tissues:</b>	Kidney, appendix
<b>Buffer:</b>	TRIS with 0.03% sodium azide, pH 7.2
<b>Storage:</b>	Store at 4°C

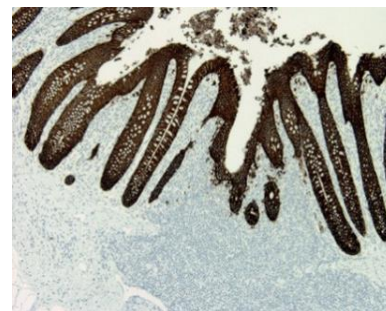
### Description

Epithelial Cell Adhesion Molecule (EpCAM) is a 40 kDa cell surface antigen and this protein is expressed in almost all epithelial cell membranes but not on mesodermal or neural cell membranes. EpCAM is a Type 1 transmembrane glycoprotein and it is expressed on the basolateral membrane of cells by the majority of epithelial tissues, with the exception of adult squamous epithelium and some specific epithelial cell types including hepatocytes and gastric epithelial cells. EpCAM expression has been reported to be a possible marker of early malignancy, with expression being increased in tumor cells, and de novo expression being seen in dysplastic squamous epithelium. This cell surface, glycosylated 40kD protein is highly expressed in the bone marrow, colon, lung, and most normal epithelial cells and is expressed on carcinomas of gastrointestinal origin.

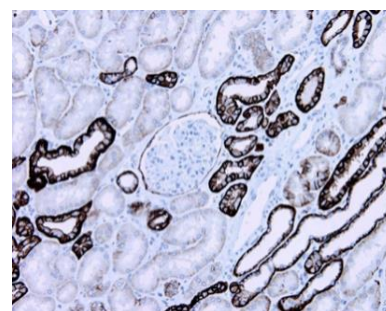
### Protocol

1. Deparaffinize and rehydrate tissue section
2. Wash: aqua dest, 2×5 min
3. Pre-treatment: PT-module HIER pH 9.0 (20min at 98°C)
4. H<sub>2</sub>O<sub>2</sub> (concentration 3%), 10 min
5. Wash: PBS or TBS buffer, 2×5 min
6. Primary antibody diluted as recommended, 30 min
7. Wash: PBS or TBS buffer, 2×5 min
8. One step HRP-polymer detection, 30 min
9. Wash: PBS or TBS buffer, 2×5 min
10. DAB Substrate, 8 min
11. Wash: aqua dest, 2×2 min
12. Counterstain, dehydrate and coverslip

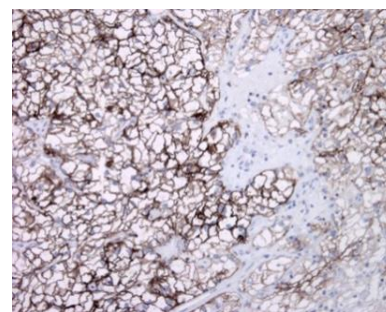
Dilution of concentrated antibody depends on the pre-treatment method and detection system used. Above protocol used in Optibodies evaluation and is meant as a reference. Final working dilution and protocol applied needs to be determined by the user always.



Appendix section has been stained using EpCAM optibody (Clone: BS14) with 1:200 dilution. Columnal epithelial cells of appendix have strong membranous label.



Kidney section has been stained using EpCAM optibody (Clone: BS14) with 1:200 dilution. Strong staining in epithelia of collecting tubules and moderate and weak staining in epithelia of proximal tubules and bowman's capsule.



Renal clear cell carcinoma section has been stained using EpCAM optibody (Clone: BS14) with 1:200 dilution. Neoplastic cells have strong to