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Anti-EpCAM, mouse monoclonal (BS14)

BSH-7402-100 (0,1ml), BSH-7402-1 (1 ml)

Clonality:	Mouse monoclonal antibody
Clone:	BS14
Application:	IHC-P (1:100 – 1:400)
Species Reactivity:	Human, dog, rat, pig, sheep
Control tissues:	Kidney, appendix
Buffer:	TRIS with 0.03% sodium azide, pH 7,2
Storage:	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.

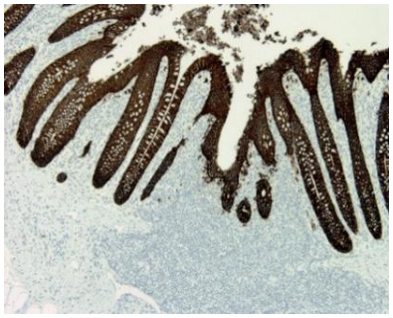
Protocol

After paraffin removing and rehydration:

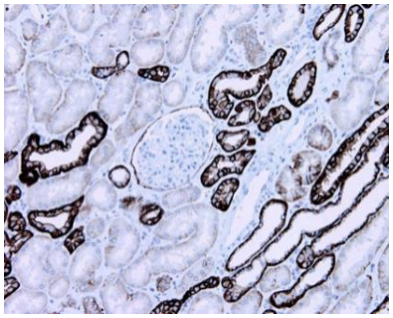
1. Pretreatment: HIER pH9
2. Wash (TBS-Tween)
3. Primary antibody: EpCAM 1:100 – 1:400, 30 min.
4. Wash
5. 3% H_2O_2, 10 min.*
6. Wash
7. BioSite Histo HRP One-Step Polymer (KDB-10007), 30 min
8. Wash
9. Wash
10. DAB high contrast Kit (BCB-20032), 10 min
11. Aqua
12. $CuSO_4$ -post enhancement, 5 min
13. Aqua
14. Counter staining in diluted Mayer, 1 min
15. Bluing, 7 min in tap water
16. Dehydration, clearing and mounting

Dilution of this concentrated antibody depends on the detection system used and the final working dilution need to always be determined by the user.

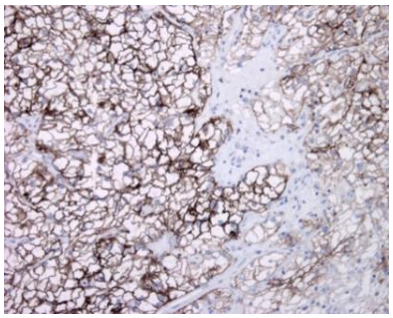
* Optional; Endogenous peroxidase blocking can also be done before primary antibody incubation.



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 moderate membranous label.