

Anti-human Pan Cytokeratin, mouse monoclonal (BS5)

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|--------------|--------|--------------|
| BSH-7124-100 | 0,1 ml | concentrate |
| BSH-7124-1 | 1 ml | concentrate |
| BSH-7124-7 | 7 ml | ready-to-use |

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|---------------------------|-------|
| Clone | BS5 |
| Species Reactivity | human |
| Source/Host | mouse |
| Application | IHC |

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|--------------------|---|
| Alias names | Optibodies, CK, Keratin, pan CK, Optibody |
| Buffer | TRIS with 0.03% sodium azide, pH7,2 |
| Storage | Store at 4°C |

Protocol

After paraffin removing and rehydration:

1. Pretreatment: HIER pH9 (TRIS-EDTA)
2. Wash (TBS-Tween)
3. Primary antibody: pan CK 1:100-1:300, 30 min.
4. Wash
5. 3 % H₂O₂, 10 min.
6. Wash
7. BioSiteHisto HRP One-Step Polymer (KDB-10009), 30 min
8. Wash
9. Wash
10. DAB high contrast Kit (BCB-20032), 10 min
11. Aqua
12. CuSO₄ -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.

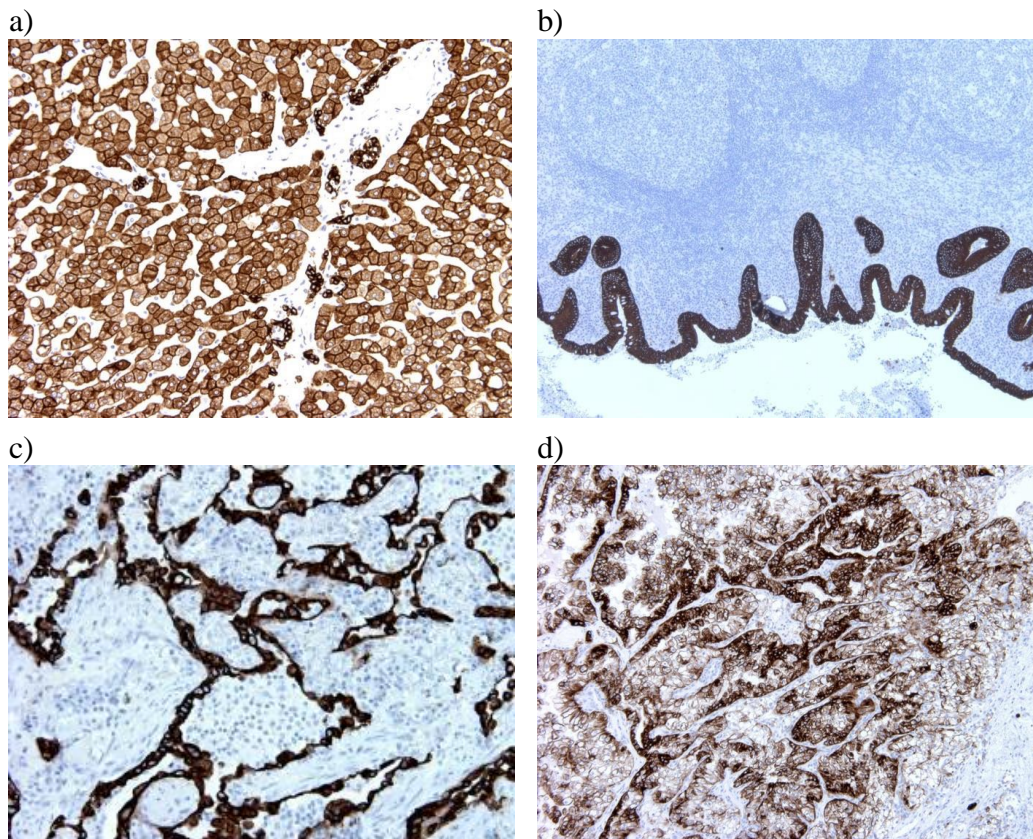
Step 5. Endogenous peroxidase blocking can be done also before primary antibody incubation.



2 (3)

Background

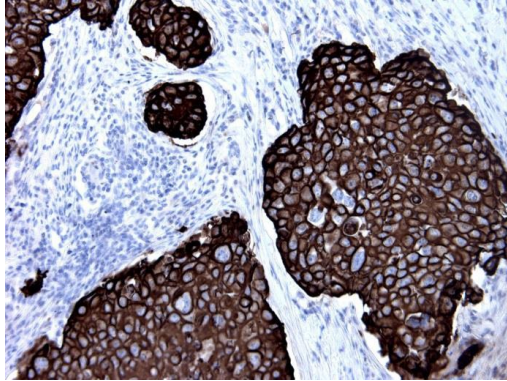
Biochemically, most members of the CK family fall into one of two classes, type I (acidic polypeptides) and type II (basic polypeptides). The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. Cytokeratins comprise a diverse group of intermediate filament proteins (IFPs) that are expressed as pairs in both keratinized and non-keratinized epithelial tissue. Cytokeratins play a critical role in differentiation and tissue specialization and function to maintain the overall structural integrity of epithelial cells. Cytokeratins have been found to be useful markers of tissue differentiation which is directly applicable to the characterization of malignant tumors.





3 (3)

e)



CKpan stained tissue sections. CKpan Optibody (Clone: BS5) with 1:200 dilution offers similar membranous staining pattern of the hepatocytes and bile ducts as the optimal staining criteria (a). Columnar epithelium of appendix is strongly stained without any background staining (b). CKpan shows breast ductal breast carcinoma cells clearly and intensively (e) as well as lung adenocarcinoma cells (c). Optibody offers strong or moderate staining intensity in clear cell carcinoma of kidney (d).