

Anti-human CEA, mouse monoclonal (BS33)

BSH-7437-100 (0,1ml), BSH-7437-1 (1 ml)



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|----------------------------|--|
| Clonality: | Mouse monoclonal antibody |
| Clone: | BS33 |
| Application: | IHC |
| Species Reactivity: | Human |
| Control tissues: | Appendix, liver |
| Alias names: | Carcino Embryonic Antigen; CEA; CD66e; CEACAM5 |
| Buffer: | TRIS with 0.03% sodium azide, pH 7,2 |
| Storage: | Store at 4°C |

Description

CEA are useful in identifying the origin of various metastatic adenocarcinomas and in distinguishing pulmonary adenocarcinomas (60 to 70% are CEA+) from pleural mesotheliomas (rarely or weakly CEA+). The carcinoembryonic antigen (CEA) is a member of a large family of glycoproteins and a useful tumor marker for adenocarcinoma. Tissue specificity: Found in adenocarcinomas of endodermally derived digestive system epithelium and fetal colon.

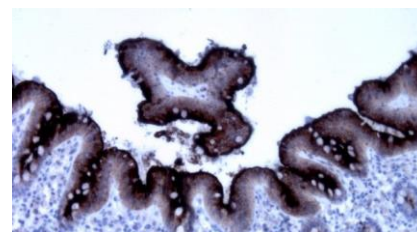
Protocol

After paraffin removing and rehydration:

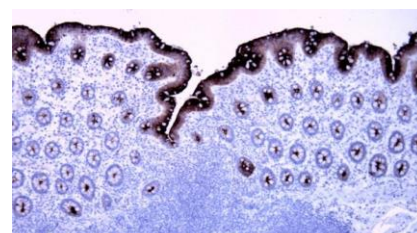
1. Pretreatment: HIER pH9
2. Wash (TBS-Tween)
3. Primary antibody: CEA 1:100-1:300, 30 min.
4. Wash
5. 3% H₂O₂, 10 min.*
6. Wash
7. BioSite Histo HRP One-Step Polymer (KDB-10007), 30 min
8. Wash
9. Wash
10. DAB high contrast Kit (BCB-20032), 10 min
11. Aqua
12. CuSO₄ -post enhancement, 5 min
13. Aqua
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.

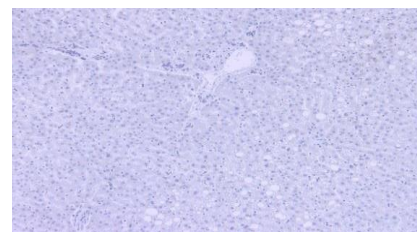
* Optional; Endogenous peroxidase blocking can also be done before primary antibody incubation.



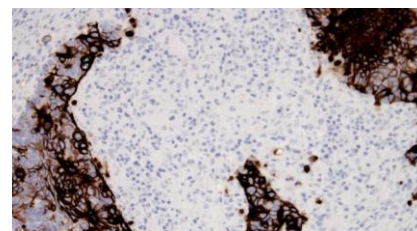
a)



b)



c)



d)

CEA stained tissue sections.

CEA optibody (Clone: BS33) staining with 1:250 dilution is intensive and specific (a, b, d) without staining of the liver bile ducts (negative control) (c). The signal to noise ratio is high. Luminal part of columnar epithelia stained strongly (appendix, a, b) and liver stained negatively (c). Colorectal cancer metastase in lymph node stained strongly with CEA optibody (d).