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# Beta-Catenin, mouse monoclonal (BS31)

BSH-2014-100 (0,1ml), BSH-2014-1 (1 ml)

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|---|---|
| **Clonality:** | Mouse monoclonal antibody |
| **Clone:** | BS31 |
| **Application:** | IHC-P (1:100 – 1:400), IHC-Fro |
| **Species Reactivity:** | Human, mouse, rabbit, rat, pig, sheep, dog |
| **Control tissues:** | Appendix, liver, tonsil |
| **Buffer:** | TRIS with 0.03% sodium azide, pH 7,2 |
| **Storage:** | Store at 4°C |

## Description

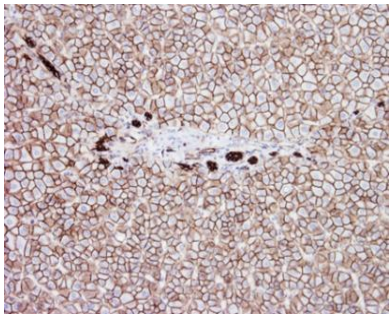
Beta-Catenin is a member of catenin family together with alpha and gamma catenin. It mediates cell-cell adhesion with cadherins and it is key regulatory protein in signaling through the WNT pathway. Beta catenin has a role in cellular proliferation, differentiation and development. Mutations in beta catenin gene (CTNNB1) leads accumulation of the beta catenin protein in cytoplasm and nucleus in different type of tumors eg. endometrial carcinoma and desmoid tumors. This antibody is useful in differentiation diagnostic of tumors.

## Protocol

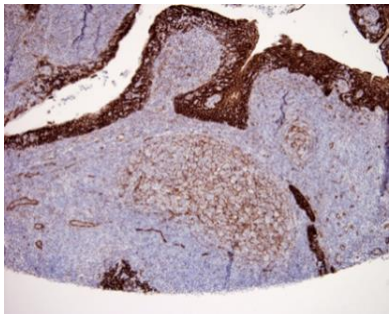
After paraffin removing and rehydration:

1. Pretreatment: HIER pH9
2. Wash (TBS-Tween)
3. Primary antibody: Beta-Catenin 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

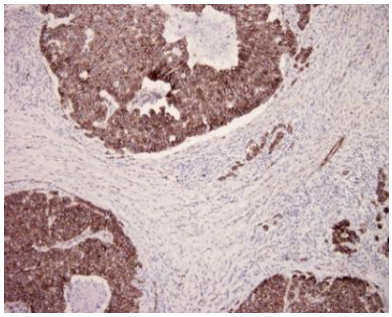
Dilution of this concentrated antibody depends on the detection system used and the final working dilution need to always be determined by the user.
* Optional; Endogenous peroxidase blocking can also be done before primary antibody incubation.



Liver section has been stained using Beta-Catenin optibody (Clone: BS31) with 1:200 dilution. Hepatocytes and bileducts have strong membranous label.



Tonsil section has been stained using Beta-Catenin optibody (Clone: BS31) with 1:200 dilution. Epithelial cells have strong label. Follicular dendritic cells and vascular endothelial cells have label in tonsil.



Ductal breast carcinoma section has been stained using Beta-Catenin optibody (Clone: BS31) with 1:200 dilution. Ductals carcinoma cells have strong membranous staining pattern, without nuclear accumulation of beta-catenin.