

## Anti-E-cadherin, mouse monoclonal (BS38)

BSH-7516-100 (0,1ml), BSH-7516-1 (1 ml)



<b>Clonality:</b>	Mouse monoclonal antibody
<b>Clone:</b>	BS38
<b>Application:</b>	IHC-P (1:100 – 1:400)
<b>Species Reactivity:</b>	Human, dog, rat, mouse, pig, sheep, rabbit
<b>Control tissues:</b>	Ductal breast carcinoma (+), lobular breast carcinoma (-), liver
<b>Buffer:</b>	TRIS with 0.03% sodium azide, pH 7,2
<b>Storage:</b>	Store at 4°C

### Description

E-Cadherin is a 120 kDa transmembrane glycoprotein that is localized in the adherens junctions of epithelial cells. There, it interacts with the cytoskeleton through the associated cytoplasmic catenin proteins. E-Cadherin is a critical regulator of epithelial junction formation. Its association with catenins is necessary for cell-cell adhesion. These E-cadherin/catenin complexes associate with cortical actin bundles at both the zonula adherens and the lateral adhesion plaques. E-Cadherin expression is often down-regulated in highly invasive, poorly differentiated carcinomas. Increased expression of E-Cadherin in these cells reduces invasiveness. Thus, loss of expression or function of E-Cadherin appears to be an important step in tumorigenic progression. E-cadherin used for differential diagnosis between ductal and lobular breast carcinoma.

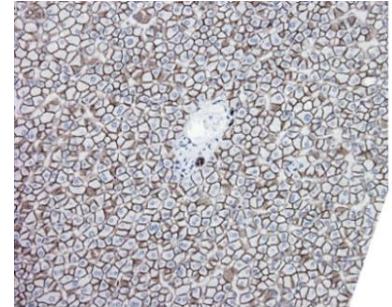
### Protocol

After paraffin removing and rehydration:

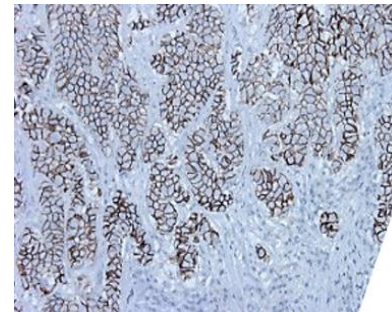
1. Pretreatment: HIER pH9
2. Wash (TBS-Tween)
3. Primary antibody: E-cadherin 1:100 – 1:400, 30 min.
4. Wash
5. 3% H<sub>2</sub>O<sub>2</sub>, 10 min.\*
6. Wash
7. BioSite Histo HRP One-Step Polymer (KDB-10007), 30 min
8. Wash
9. Wash
10. DAB high contrast Kit (BCB-20032), 10 min
11. Aqua
12. CuSO<sub>4</sub> -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.

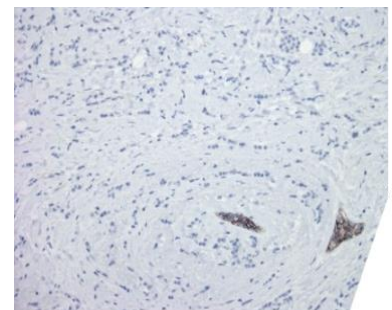
\* Optional; Endogenous peroxidase blocking can also be done before primary antibody incubation.



Liver section has been stained using E-cadherin antibody (Clone: BS38) with 1:250 dilution. Membranes of hepatocytes and bile ducts have strong label.



Ductal breast carcinoma section has been stained using E-cadherin antibody (Clone: BS38) with 1:250 dilution. Carcinoma cells have strong membranous label.



Lobular breast carcinoma section has been stained using E-cadherin antibody (Clone: BS38) with 1:250 dilution. No staining in the lobular breast carcinoma.