

## 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
<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.

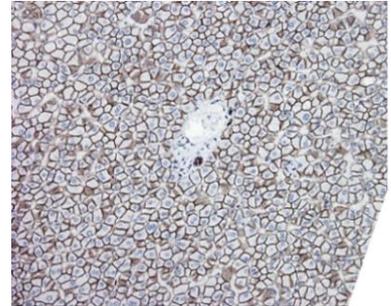
### Protocol

After paraffin removing and rehydration:

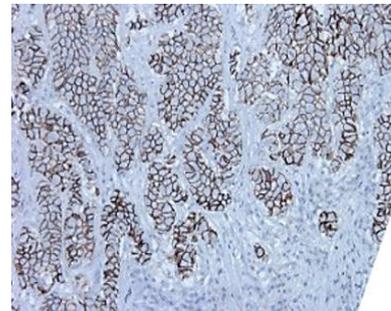
1. Pre-treatment: PT-module HIER pH9 (20min at 98°C)
2. Wash (TBS-Tween in all washing steps)
3. Primary antibody: E-cadherin 1:100 – 1:400, 30 min.
4. Wash
5. Peroxidase blocking (3% H<sub>2</sub>O<sub>2</sub>), 10 min.
6. Wash
7. One step HRP-polymer detection, 30 min
8. Wash x2
9. DAB-Substrate, 10 min
10. Aqua
11. CuSO<sub>4</sub> -post enhancement, 5 min
12. Aqua

Counter staining, Bluing, dehydration, clearing, and mounting.

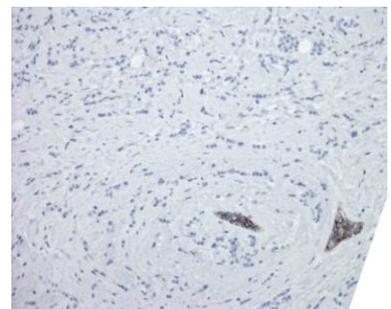
Dilution of concentrated antibody depends on the pre-treatment method and detection system used. Above protocol used in Optibodies evaluation and is meant as a reference. Final working dilution and protocol applied needs to be determined by the user always.



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



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.