

## Anti-SMA, mouse monoclonal (BS66)

BSH-7459-100 (0,1ml), BSH-7459-1 (1 ml)



<b>Clonality:</b>	Mouse monoclonal antibody
<b>Clone:</b>	BS66
<b>Application:</b>	IHC-P (1:100 – 1:400), IHC-Fro
<b>Species Reactivity:</b>	Human, mouse, rabbit, rat, pig, sheep, dog
<b>Control tissues:</b>	Liver, appendix
<b>Buffer:</b>	TRIS with 0.03% sodium azide, pH 7,2
<b>Storage:</b>	Store at 4°C

### Description

The protein encoded by ACTA2 gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This smooth muscle specific alpha actin (SMA) stains actin from smooth muscle cells, myoepithelial cells, and myofibroblasts without cross-reaction of skeletal muscle. SMA is used especially for detection of leiomyomatous and myofibroblastic tumours, GIST and mesenchymal tumors.

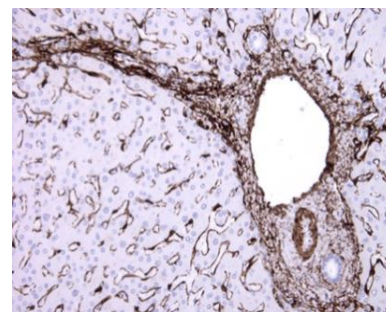
### Protocol

After paraffin removing and rehydration:

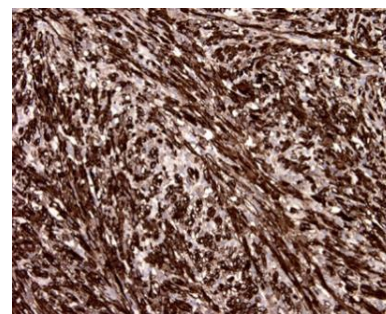
1. Pretreatment: HIER pH9
2. Wash (TBS-Tween)
3. Primary antibody: SMA 1:100 – 1:400, 30 min.
4. Wash
5. 3% H<sub>2</sub>O<sub>2</sub>, 10 min.\*
6. Wash
7. BioSite Histo HRP One-Step Polymer (KDB-10007), 30 min
8. Wash
9. Wash
10. DAB high contrast Kit (BCB-20032), 10 min
11. Aqua
12. CuSO<sub>4</sub>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

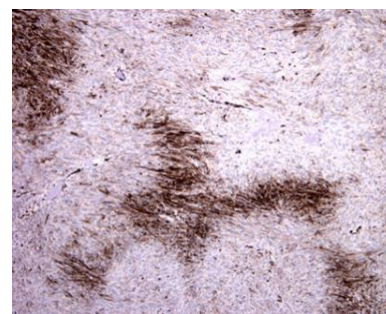
\* Optional; Endogenous peroxidase blocking can also be done before primary antibody incubation.



Liver section has been stained using SMA antibody (BS66) with 1:200 dilution. Endothelial cells of sinusoids and portal area have strongly stained without staining of the bile ducts.



Leiomyoma section has been stained using SMA antibody (BS66) with 1:200 dilution. All the neoplastic cells have moderate to strong staining reaction without background staining.



GIST -section has been stained using SMA antibody (BS66) with 1:200 dilution. GIST cells have heterogeneous staining pattern.