

Anti-Synaptophysin, mouse monoclonal (BS15)

BSH-7385-100 (0,1ml), BSH-7385-1 (1 ml)



Clonality:	Mouse monoclonal antibody
Clone:	BS15
Application:	IHC-P (1:100 – 1:400)
Species Reactivity:	Human, mouse, rabbit, rat, pig, sheep, dog
Control tissues:	Appendix, pancreas
Buffer:	TRIS with 0.03% sodium azide, pH 7,2
Storage:	Store at 4°C

Description

Synaptophysin (p38) is an integral membrane protein of small synaptic vesicles in brain and endocrine cells. Synaptophysin contains four transmembrane domains that form a hexameric channel or gap junction-like pore. Synaptophysin binds to the SNARE protein synaptobrevin/VAMP, which prevents the inclusion of synaptobrevin in the synaptic vesicle fusion complex and creates a pool of synaptobrevin for exocytosis when synapse activity increases. Synaptophysin is also responsible for targeting synaptobrevin 2/VAMP2 to synaptic vesicles, a critical component of the fusion complex.

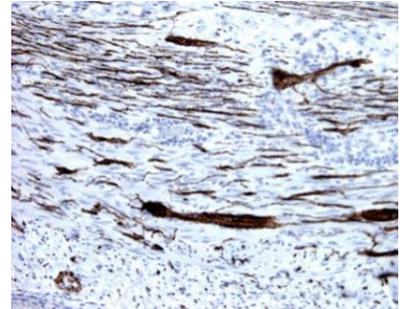
Protocol

After paraffin removing and rehydration:

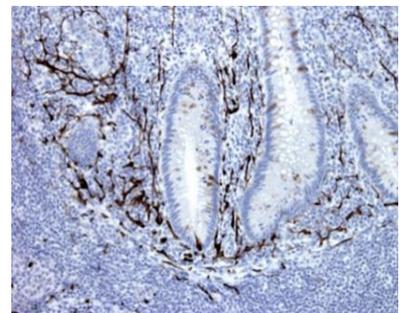
1. Pretreatment: HIER pH9
2. Wash (TBS-Tween)
3. Primary antibody: Synaptophysin 1:100 – 1:400, 30 min.
4. Wash
5. 3% H₂O₂, 10 min.*
6. Wash
7. BioSite Histo HRP One-Step Polymer (KDB-10007), 30 min
8. Wash
9. Wash
10. DAB high contrast Kit (BCB-20032), 10 min
11. Aqua
12. CuSO₄ -post enhancement, 5 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.

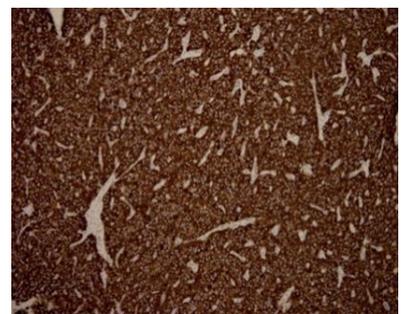
* Optional; Endogenous peroxidase blocking can also be done before primary antibody incubation.



Appendix section has been stained using Synaptophysin optibody (Clone: BS15) with 1:300 dilution. Ganglion cells and neuronal axons stained strongly.



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Neuro endocrine tumor section has been stained using Synaptophysin optibody (Clone: BS15) with 1:300 dilution. Neuroendocrine tumor cells have intensive staining reaction.