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Code No. 018-29081 (50 μL)

Anti Synapsin Ⅰ, Guinea Pig
抗シナプシンⅠ, モルモット

【Background】
Synapsin are known as phosphorylated proteins specific to neuron. In mammals, three different synapsin genes encode more than eight neuronal isoforms. Synapsin I is one of the most specific markers of synapses in the central and peripheral nervous systems, and it has been reported that it is present in some sensory nerve endings in addition to synaptic nerve endings.
Anti Synapsin Ⅰ, Guinea Pig is a guinea pig polyclonal antibody that reacts with Synapsin Ⅰ[1-2].

【Description】

[Reactivity]	Reacts with Synapsin Ⅰ
[Antigen]	Rat synapsin Ⅰ
[Species cross reactivity]	Mouse and rat (Other species have not been tested)
[Host]	Guinea pig
[Isotype]	— (Polyclonal)
[Formulation]	Antiserum

【Application】
Immunocytochemistry 1 : 1,000
Immunohistochemistry (frozen section) 1 : 1,500
Optimal concentration should be determined by each laboratory for each application.

【Storage】
Store at -20℃.
Avoid repeated freeze and thaw.

【Package】
50 μL

【Protocol examples (Immunohistochemistry, frozen brain section)】
1. Perfusion fixation
   Perfuse with sodium citrate/PBS to remove blood, followed by perfusion with 4% PFA.
2. Post-fixation
   4% PFA (~ 24 hours)
3. Immersion in sucrose
   30% Sucrose/PBS (4℃, overnight ~ approximately 2 days)
4. Preparation of frozen sections
   After removing sucrose, prepare frozen blocks and cut 30-μm thick sections using a cryostat.
5. Glycine treatment
   25 mM glycine/PBS (approximately 20 minutes)

6. Blocking
   5% normal goat serum in 0.3% Triton X-100/PBS (4℃, overnight)
7. Primary antibody reaction
   Anti Synapsin Ⅰ, Guinea pig (1 : 1,500), 1% normal goat serum in 0.3% Triton X-100/PBS (4℃, overnight ~ 2 days).
8. Washing
   0.3% Triton X-100/PBS (5 minutes × 3)
9. Secondary antibody reaction
   Alexa Fluor® 488 AffiniPure Goat Anti-Guinea Pig IgG (H+L) (1 : 500), 1% normal goat serum in 0.3% Triton X-100/PBS (RT, 2 hours)
10. Washing
    0.3% Triton X-100/PBS (5 minutes × 3)
11. Mounting
    The sample is sealed in mounting medium and stored at 4℃ in a dark place.

【References】
1) Morita, S., Miyata, S.: *Cell Biochem. Funct.*, **31**, 400 (2013)
2) Kawai, S., Kurganov, E., Miyata, S.: *Cell Biochem. Funct.*, **38**, 392 (2020)

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