

FUJIFILM

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Code No. 010-28821 (50  $\mu$ L)

## Anti Laminin, Guinea Pig 抗ラミニン, モルモット

### 【Background】

Laminin is a component of the basement membrane, an extracellular matrix, and is a large protein with a heterotrimeric structure consisting of one  $\alpha$ -chain, one  $\beta$ -chain, and one  $\gamma$ -chain<sup>1)</sup>. Laminin is involved in many biological activities such as cell adhesion, migration, proliferation, and promotion of axonal growth and differentiation through binding to integrins, which are receptors for laminin. Anti Laminin, Guinea Pig is a guinea pig polyclonal antibody that reacts with laminin<sup>2,6)</sup>.

### 【Description】

[Reactivity]	Reacts with Laminin
[Antigen]	Laminin isolated from Engelbreth-Holm-Swarm murine sarcoma basement membrane
[Species cross reactivity]	Mouse and rat (Other species have not been tested)
[Host]	Guinea pig
[Isotype]	— (Polyclonal)
[Formulation]	Antiserum diluted in PBS

### 【Application】

Immunohistochemistry (frozen section) 1 : 500  
Optimal concentration should be determined by each laboratory for each application.

### 【Storage】

Store at -20°C.  
Avoid repeated freeze and thaw.

### 【Package】

50  $\mu$ L

### 【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 (**Recommended time : 6 hours**)
3. Immersion in sucrose  
30% Sucrose/PBS (4°C, overnight ~ approximately 2 days)
4. Preparation of frozen sections  
After removing sucrose, prepare frozen blocks and cut 30- $\mu$ m thick sections using a cryostat.
5. Glycine treatment  
25 mM glycine/PBS (approximately 20 minutes)

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### 6. Blocking

5% normal goat serum in 0.3% Triton X-100/PBS (4°C, overnight)

### 7. Primary antibody reaction

Anti Laminin, Guinea pig (1 : 500), 1% normal goat serum in 0.3% Triton X-100/PBS (4°C, overnight ~ 2 days).

### 8. Washing

0.3% TritonX-100/PBS (5 minutes  $\times$  3)

### 9. Secondary antibody reaction

Alexa Fluor<sup>®</sup> 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% TritonX-100/PBS (5 minutes  $\times$  3)

### 11. Mounting

The sample is sealed in mounting medium and stored at 4°C in a dark place.

### 【References】

- 1) Colognato, H., Yurchenco, P. D. : *Dev. Dyn.*, **218**, 213 (2000)
- 2) Morita, S., Furube, E., Mannari, T., Okuda, H., Tatsumi, K., Wanaka, A., Miyata, S. : *Cell Tissue Res.*, **363**, 497 (2016)
- 3) Nishikawa, K., Furube, E., Morita, S., Horii-Hayashi, N., Nishi, M., Miyata, S. : *J. Neuroendocrinol.*, **29** (2017)
- 4) Takagi, S., Furube, E., Nakano, Y., Morita, M., Miyata, S. : *J. Neuroimmunol.*, **331**, 74 (2019)
- 5) Muneoka, S., Murayama, S., Nakano, Y., Miyata, S. : *J. Neuroimmunol.*, **331**, 58 (2019)
- 6) Murayama, S., Kurganov, E., Miyata, S. : *J. Neuroimmunol.*, **334**, 576973 (2019)

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