

FUJIFILM

Wako

Code No. 016-28801 (50  $\mu$ L)

## Anti CX3CR1, Guinea Pig 抗 CX3CR1, モルモット

### 【Background】

CX3CR1 is a fractalkine receptor belonging to the seven transmembrane G protein-coupled receptor family<sup>1)</sup>. It is expressed on macrophages and lymphocytes in peripheral tissues as well as microglia in the central nervous system and is involved in immune cell survival, migration, and proliferative functions.

Anti CX3CR1, Guinea Pig is a guinea pig polyclonal antibody that reacts with CX3CR1<sup>2,3)</sup>.

### 【Description】

[Reactivity]	Reacts with CX3CR1
[Antigen]	Synthetic peptide corresponding to the N-terminus of CX3CR1
[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 : 800 ~ 1 : 1,600  
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 (~ 24 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 CX3CR1, Guinea pig (1 : 800), 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) Ferretti, E., Pistoia, V., Corcione, A. : *Mediators Inflamm.*, **2014**, 480941 (2014)
- 2) Takagi, S., Furube, E., Nakano, Y., Morita, M., Miyata, S. : *J. Neuroimmunol.*, **331**, 74 (2019)
- 3) Kawai, S., Kurganov, E., Miyata, S. : *Cell Biochem. Funct.*, **38**, 392 (2020)

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