

**FUJIFILM****Wako**Code No. 015-28871 ( 10  $\mu$ L)  
011-28873 (100  $\mu$ L)**Anti P2RY12, Guinea Pig**  
**抗 P2RY12, モルモット****[Background]**

P2RY12 (also known as P2Y12 or P2Y12R) is an adenosine 5'-diphosphate (ADP) receptor and a member of the P2Y family of purinergic G protein-coupled receptors<sup>1)</sup>. In the central nervous system, it is specifically expressed in microglia and is used as a microglial marker<sup>2)</sup>.

Anti P2RY12, Guinea Pig is a guinea pig polyclonal antibody that reacts with P2RY12.

**[Description]**

[Reactivity]	Reacts with P2RY12
[Immunogen]	Synthetic peptide corresponding to the C-terminus of P2RY12
[Species cross reactivity]	Mouse (Other species have not been tested)
[Host]	Guinea pig
[Isotype]	— (Polyclonal)
[Concentration]	Described on the label
[Purity]	Protein A affinity chromatography
[Form]	Liquid
[Preservative]	0.05% Sodium azide
[Buffer]	PBS

**[Application]**

Immunohistochemistry (frozen section) 1 : 500 ~ 1 : 2,000  
The optimal dilutions/concentrations should be determined by each laboratory.

**[Storage]**

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

**[Package]**

Code No.	Packaging
015-28871	10 $\mu$ L
011-28873	100 $\mu$ 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)

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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. Blocking  
5% normal goat serum in 0.3% Triton X-100/PBS (4°C, overnight)
6. Primary antibody reaction  
Anti P2RY12, Guinea pig (1 : 1,000), 1% normal goat serum in 0.3% Triton X-100/PBS (4°C, overnight ~ 2 days).
7. Washing  
0.3% TritonX-100/PBS (5 minutes  $\times$  3)
8. 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)
9. Washing  
0.3% TritonX-100/PBS (5 minutes  $\times$  3)
10. Mounting  
The sample is sealed in mounting medium and stored at 4°C in a dark place.

**[References]**

- 1) Murugappa, S., and Kunapuli, S. P. : *Front. Biosci.*, **11**, 1977 (2006)
- 2) Moore, C. S., Ase, A. R., Kinsara, A., Rao, V. T. S., Michell-Robinson, M., Leong, S. Y., Butovsky, O., Ludwin, S. K., Séguéla, P., Bar-Or, A., Antel, J. P. : *Neurol Neuroimmunol Neuroinflamm.*, **2**, e80 (2015)

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