

Code No. 016-26581 (50  $\mu$ L)**Anti 3R-Tau, Rat Monoclonal Antibody (2A1-1F4)****抗 3R-Tau, ラットモノクローナル抗体(2A1-1F4)****Background**

Tau is a microtubule-associated protein, mainly expressed in neurons in the central nervous system, and regulates stabilization of microtubules<sup>1)</sup>. In the brain of Alzheimer's disease patients, neurofibrillary tangles are formed which are composed of accumulated phosphorylated forms of Tau<sup>1)</sup>. The degree of these tangles correlates to the severity of dementia<sup>1)</sup>. Based on this finding, Tau has been investigated to find out the etiology and to discover drugs for Alzheimer's disease. Tau is classified into 3R-Tau and 4R-Tau which has 3 and 4 microtubules associated domains, respectively<sup>1)</sup>. This product is an antibody that specifically recognizes 3R-Tau.

**Description**

|                                   |                                                          |
|-----------------------------------|----------------------------------------------------------|
| <b>[Reactivity]</b>               | Reacts with 3R-Tau                                       |
| <b>[Antigen]</b>                  | 267-274, 306-313 a.a. of Human Tau.<br>CKHQPGGGKVQIVYKPV |
| <b>[Species cross reactivity]</b> | Human                                                    |
| <b>[Clone No.]</b>                | 2A1-1F4                                                  |
| <b>[Host]</b>                     | Rat                                                      |
| <b>[Isotype]</b>                  | IgG2b $\cdot$ $\lambda$                                  |
| <b>[Purification]</b>             | Protein A-affinity purified                              |
| <b>[Concentration]</b>            | 1 mg/mL                                                  |
| <b>[Formulation]</b>              | PBS with 50% Glycerol and 0.05% ProClin 300              |

**Applications**

|                     |                 |
|---------------------|-----------------|
| Western Blot        | 1 : 1,000-2,000 |
| Immunoprecipitation | 1 : 100         |

Optimal concentration should be determined by each laboratory for each application.

**Storage**

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

**Package**

| Code No.  | Packaging  |
|-----------|------------|
| 016-26581 | 50 $\mu$ L |

**Reference**

1) Liu, F., *et al.* : *Mol Neurodegener.* **3**, 8 (2008).

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