

Datasheet for ABIN1412392

## anti-PPP1R9A antibody (AA 115-165) (Cy5)



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### Overview

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                  |
| Target:              | PPP1R9A                                                                                                 |
| Binding Specificity: | AA 115-165                                                                                              |
| Reactivity:          | Mouse, Rat                                                                                              |
| Host:                | Rabbit                                                                                                  |
| Clonality:           | Polyclonal                                                                                              |
| Conjugate:           | This PPP1R9A antibody is conjugated to Cy5                                                              |
| Application:         | Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

### Product Details

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human Neurabin 1 |
| Isotype:              | IgG                                                            |
| Cross-Reactivity:     | Mouse, Rat                                                     |
| Predicted Reactivity: | Human,Dog,Cow,Sheep,Pig,Rabbit                                 |
| Purification:         | Purified by Protein A.                                         |

### Target Details

|                   |                                                         |
|-------------------|---------------------------------------------------------|
| Target:           | PPP1R9A                                                 |
| Alternative Name: | Neurabin 1/PPP1R9A ( <a href="#">PPP1R9A Products</a> ) |

## Target Details

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Background: | <p>Synonyms: FLJ20068, KIAA1222, NEB1_HUMAN, Neurabin I, Neurabin-1, Neurabin-I, Neurabin1, Neurabin-1, NeurabinI, Neurabin1, Neural tissue specic F actin binding protein I, Neural tissue-specific F-actin-binding protein I, NRB 1, NRB I, NRB1, NRBI, PPP1R9A, Protein phosphatase 1 regulatory inhibitor subunit 9A, Protein phosphatase 1 regulatory subunit 9A.</p> <p>Background: Brain-specific neurabin I (neural tissue-specific F-actin binding protein I) is highly concentrated in the synapse of developed neurons, it localizes in the growth cone lamellipodia during neuronal development (1). Suppression of endogenous neurabin in rat hippocampal neurons inhibits neurite formation (1). Neurabin I recruits active PP1 via a PP1-docking sequence, mutation of the PP1-binding motif halts filopodia and restores stress fibers in neurabin I-expressing cells (2,3). Neurabin II (Spinophilin) is ubiquitously expressed but is abundantly expressed in brain (4). Neurabin II localizes to neuronal dendritic spines, which are the specialized protrusions from dendritic shafts that receive most of the excitatory input in the CNS (5). Neurabin II may regulate dendritic spine properties as neurabin II(-) mice have increased spine density during development in vitro and exhibit altered filopodial formation in cultured cells (5). Neurabin may also play a role in glutamatergic transmission as Neurabin II(-) mice exhibit reduced long-term depression and resistance to kainate-induced seizures and neuronal apoptosis (5). Neurabin II complexes with the catalytic subunit of protein phosphatase-1 (PP1) in vitro thus modulating the activity of PP1 (4).</p> |
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## Application Details

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| Application Notes: | IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
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|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
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## Handling

|                    |                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                             |
| Concentration:     | 1 µg/µL                                                                                                            |
| Buffer:            | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.        |
| Preservative:      | ProClin                                                                                                            |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |

## Handling

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| Storage: | -20 °C |
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| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |
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| Expiry Date: | 12 months |
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