

## ARG54031 anti-MAP2 antibody (N-term)

Package: 50 µl  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Mouse Monoclonal antibody recognizes MAP2  |
| Tested Reactivity   | Hu, Ms   |
| Tested Application  | ICC/IF, IP, WB   |
| Host                | Mouse  |
| Clonality           | Monoclonal   |
| Isotype             | IgG2b  |
| Target Name         | MAP2   |
| Species             | Human  |
| Immunogen           | Purified recombinant human MAP2 (N-terminus) protein fragments expressed in E.coli |
| Conjugation         | Un-conjugated  |
| Alternate Names     | MAP2A; Microtubule-associated protein 2; MAP2C; MAP2B; MAP-2                       |

### Application Instructions

|                   |  |                 |
|-------------------|--|-----------------|
| Application table | Application  | Dilution        |
|                   | ICC/IF   | 1:150           |
|                   | IP   | Assay-dependent |
|                   | WB   | 1:1000          |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                 |
| Observed Size     | 300 kDa  |                 |

### Properties

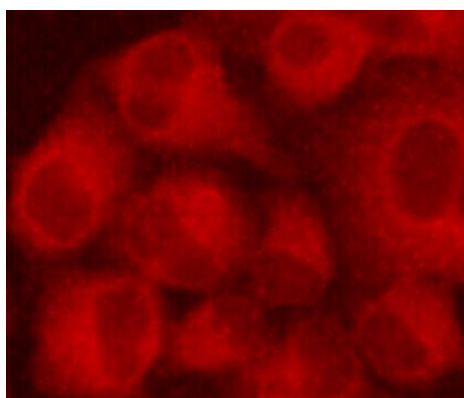
|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity purified   |
| Buffer              | 0.1M Tris-Glycine (pH 7.4), 150mM NaCl, 0.2%Sodium azide, 0.1%BSA and 50%Glycerol   |
| Preservative        | 0.2%Sodium azide  |
| Stabilizer          | 0.1%BSA, 50%Glycerol  |
| Concentration       | 1 mg/ml   |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

|                       |  |
|-----------------------|--|
| Database links        | <a href="#">GeneID: 17756 Mouse</a><br><a href="#">GeneID: 4133 Human</a><br><a href="#">Swiss-port # P11137 Human</a><br><a href="#">Swiss-port # P20357 Mouse</a>  |
| Gene Symbol           | MAP2   |
| Gene Full Name        | microtubule-associated protein 2   |
| Background            | The exact function of MAP2 is unknown but MAPs may stabilize the microtubules against depolymerization.They also seem to have a stiffening effect on microtubules.   |
| Function              | The exact function of MAP2 is unknown but MAPs may stabilize the microtubules against depolymerization. They also seem to have a stiffening effect on microtubules. [UniProt]  |
| Highlight             | Related products:<br><a href="#">MAP2 antibodies: MAP2 Duos / Panels: Anti-Mouse IgG secondary antibodies:</a><br>Related news:<br><a href="#">Neuronal Development Marker</a><br><a href="#">Astrocyte-to-neuron conversion for Parkinson's disease treatment</a>   |
| Research Area         | Controls and Markers antibody; Neuroscience antibody; Signaling Transduction antibody; Neuron Marker antibody; Mature Neuron Marker antibody; Neurite Marker antibody  |
| Calculated Mw         | 200 kDa  |
| PTM                   | Phosphorylated at serine residues in K-X-G-S motifs by MAP/microtubule affinity-regulating kinase (MARK1 or MARK2), causing detachment from microtubules, and their disassembly (By similarity). Isoform 2 is probably phosphorylated by PKA at Ser-323, Ser-354 and Ser-386 and by FYN at Tyr-67. The interaction with KNDC1 enhances MAP2 threonine phosphorylation (By similarity). |
| Cellular Localization | Cytoplasm, cytoskeleton  |

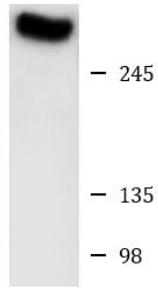
## Images



ARG54031 anti-MAP2 antibody (N-term) ICC/IF image

Immunofluorescence: HeLa cells fixed with 4% Paraformaldehyde and stained with ARG54031 anti-MAP2 antibody (N-term) at 1:100 dilution.

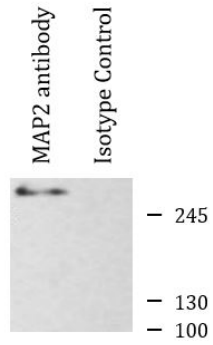
ARG54031 anti-MAP2 antibody (N-term) WB image



Western blot: Mouse brain lysate stained with ARG54031 anti-MAP2 antibody (N-term) at 1:1000 dilution.

Mouse brain

ARG54031 anti-MAP2 antibody (N-term) IP image



Immunoprecipitation: HeLa cell lysates were immunoprecipitated and stained with ARG54031 anti-MAP2 antibody (N-term).