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

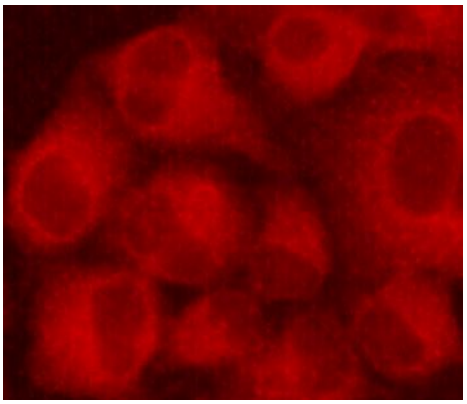
Form	Liquid
Purification	Affinity purified
Buffer	0.1M Tris-Glycine (pH 7.4), 150mM NaCl, 0.2%Sodium azide, 0.1%BSA and 50%Glycerol
Preservative	0.2%Sodium azide
Stabilizer	0.1%BSA, 50%Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a 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

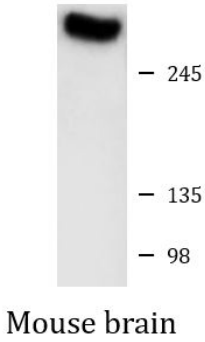
Database links	GeneID: 17756 Mouse GeneID: 4133 Human Swiss-port # P11137 Human Swiss-port # P20357 Mouse
Gene Symbol	MAP2
Gene Full Name	microtubule-associated protein 2
Background	The exact function of MAP2 is unknown but MAPs may stabilize the microtubules against depolymerization.They also seem to 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: MAP2 antibodies; MAP2 Duos / Panels; Anti-Mouse IgG secondary antibodies; Related news: Neuronal Development Marker Astrocyte-to-neuron conversion for Parkinson's disease treatment
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



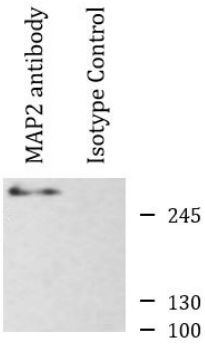
ARG54031 anti-MAP2 antibody (N-term) ICC/IF image

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.



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

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