

ARG11139 anti-MAP2ab antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MAP2ab
Tested Reactivity	Hu, Ms, Rat, Cow
Tested Application	IHC-Fr, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MAP2ab
Species	Human
Immunogen	Recombinant protein corresponding to aa. 377-1505 (projection domain sequences) of Human MAP2ab.
Conjugation	Un-conjugated
Alternate Names	MAP2A; Microtubule-associated protein 2; MAP2B; MAP-2

Application Instructions

Application table	Application	Dilution
	IHC-Fr	1:10000
	WB	1:50000

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

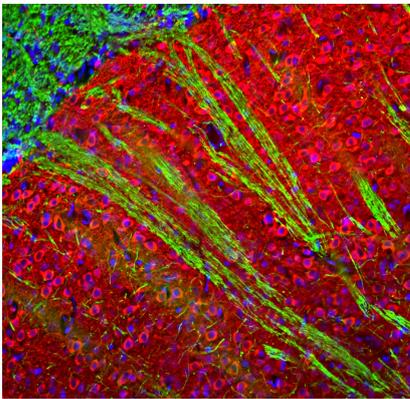
Form	Liquid
Buffer	Serum and 5 mM Sodium azide.
Preservative	5 mM Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw 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

Gene Symbol	MAP2
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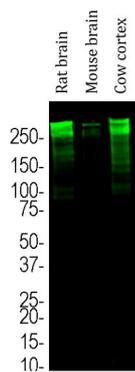
Gene Full Name	microtubule-associated protein 2
Background	This gene encodes a protein that belongs to the microtubule-associated protein family. The proteins of this family are thought to be involved in microtubule assembly, which is an essential step in neurogenesis. The products of similar genes in rat and mouse are neuron-specific cytoskeletal proteins that are enriched in dendrites, implicating a role in determining and stabilizing dendritic shape during neuron development. A number of alternatively spliced variants encoding distinct isoforms have been described. [provided by RefSeq, Jan 2010]
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]
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). [UniProt]
Cellular Localization	Cytoplasm, cytoskeleton. Cell projection, dendrite. [UniProt]

Images



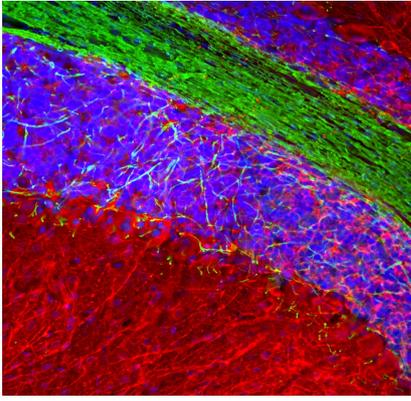
ARG11139 anti-MAP2ab antibody IHC-Fr image

Immunohistochemistry: Frozen section of Rat brain striatum stained with ARG11139 anti-MAP2ab antibody (red) at 1:10000 dilution, and co-stained with anti-Myelin Basic Protein antibody (green) at 1:5000 dilution. Hoechst (blue) for nuclear staining.



ARG11139 anti-MAP2ab antibody WB image

Western blot: Rat brain, Mouse brain and Cow cortex lysates stained with ARG11139 anti-MAP2ab antibody at 1:50000 dilution.



ARG11139 anti-MAP2ab antibody IHC-Fr image

Immunohistochemistry: Frozen section of Rat cerebellum tissue stained with ARG11139 anti-MAP2ab antibody (red) at 1:10000 dilution, and co-stained with anti-Myelin Basic Protein antibody (green) at 1:5000 dilution. Hoechst (blue) for nuclear staining.