

Product datasheet

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ARG52328 anti-MAP2 antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Chicken Polyclonal antibody recognizes MAP2

Tested Reactivity Hu, Ms, Rat, Bov, Dog, Marmoset, Sheep

Tested Application ICC/IF, IHC-FoFr , IHC-Fr, IHC-P, WB

Host Chicken

Clonality Polyclonal

Isotype IgY

Target Name MAP2

Species Bovine

Immunogen Bovine MAP2 isolated from brain by the GTP microtubule cycling method

Conjugation Un-conjugated

Alternate Names MAP2A; Microtubule-associated protein 2; MAP2C; MAP2B; MAP-2

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:1000 - 1:5000
	IHC-FoFr	1:1000 - 1:5000
	IHC-Fr	1:1000 - 1:5000
	IHC-P	1:1000 - 1:5000
	WB	1:20000
Application Note	Specific for the $^\sim$ 280k MAP2 protein. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Total IgY fraction
Buffer	Total IgY fraction in PBS and 10 mM Sodium azide
Preservative	10 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

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before use.

Bioinformation

Gene Symbol Gene Full Name Background MAP2

microtubule associated protein 2

Microtubules are 25nm diameter protein rods found in most kinds of eukaryotic cells. They are polymerized from a dimeric subunit made of one a subunit and one b tubulin subunit. Microtubules are associated with a family of proteins called microtubule associated proteins (MAPs), which includes the protein τ (tau) and a group of proteins referred to as MAP1, MAP2, MAP3, MAP4 and MAP5 (Kindler & Gardner 1994). MAP2 is made up of two ~280kDa apparent molecular weight bands referred to as MAP2a and MAP2b. A third lower molecular weight form, usually called MAP2c, corresponds to a pair of protein bands running at ~70kDa on SDS-PAGE gels. All these MAP2 forms are derived from a single gene by alternate transcription, and all share a C-terminal sequence which includes either three or four microtubule binding peptide sequences, which are very similar to those found in the related microtubule binding protein τ (tau). MAP2 isoforms are expressed only in neuronal cells and specifically in the perikarya and dendrites of these cells. MAP2 has been recently shown to be the specific receptor for the neurosteroid pregnenolone (Fontaine-Lenore V. et al., 2006).

Related Antibody Duos and Panels:

ARG30009 NSC and Neuron Marker Antibody Duo (Nestin, MAP2)

ARG30301 Neurite Marker Antibody Duo

Related products:

MAP2 antibodies; MAP2 Duos / Panels; Anti-Chicken IgY secondary antibodies;

Related news:

14-3-3n as a promising target for the treatment of Major Depression Disorder

Neuronal Development Marker

Astrocyte-to-neuron conversion for Parkinson's disease treatment

Research Area

Highlight

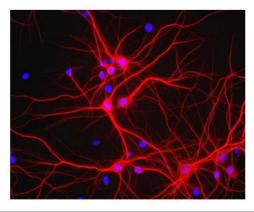
Controls and Markers antibody; Neuroscience antibody; Signaling Transduction antibody; Neuron Marker antibody; Mature Neuron Marker antibody; Neurite Marker antibody

20

Calculated Mw PTM

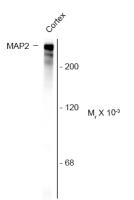
Phosphorylated at serine residues in K-X-G-S motifs by MAP/microtubule affinity-regulating kinase (MARK1 or MARK2), causing detachment from microtubules, and their disassembly (By similarity). Isoform 2 is probably phosphorylated by PKA at Ser-323, Ser-354 and Ser-386 and by FYN at Tyr-67. The interaction with KNDC1 enhances MAP2 threonine phosphorylation (By similarity).

Images



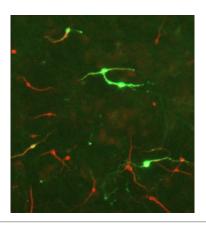
ARG52328 anti-MAP2 antibody ICC/IF image

Immunofluorescence: Mixed neuron/glial cultures. The perikarya and dendrites of neurons are strongly and specifically stained with ARG52328 anti-MAP2 antibody (red). Cell nuclei are visualized with DAPI DNA stain.



ARG52328 anti-MAP2 antibody WB image

Western blot: Rat cortex lysate stained with ARG52328 anti-MAP2 antibody showing specific immunolabeling of the $^{\sim}$ 280 kDa MAP2 protein.



ARG52328 anti-MAP2 antibody ICC/IF image

Immunofluorescence: E17 Rat midbrain mixed neuronal cultures stained with <u>ARG52461</u> anti-Tyrosine Hydroxylase antibody (green) and ARG52328 anti-MAP2 antibody (red).