

Microtubule Associated Protein 2 Data Sheet

Catalog Number:	RA22152	Host:	Rabbit
Product Type:	Rabbit Polyclonal	Species Reactivity:	Human, Rat, Mouse, Cow
Immunogen Sequence:	Recombinant human projection domain sequences, amino acids 377-1505	Format:	Supplied as an aliquot of serum plus 5mM NaN3
Applications:	Immunofluorescence: 1:10,000 Western Blot: 1:50,000		
Storage:	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.		

Application Notes

Description/Data

Microtubules are 25nm diameter protein rods found in eukaryotic cells and are associated with a family of proteins called microtubule associated proteins (MAPs). MAPs play a crucial role in the regulation of microtubule dynamics and interactions in vivo. MAP2 isoforms are expressed only in neuronal perikarya and dendrites so appropriate antibodies are used to identify these structures in cell culture and sections.

RA22152 was made against a mixture of recombinant human projection domain sequences. It binds to the MAP2A and MAP2B isoforms but not the lower molecular weight MAP2C and MAP2D forms which lack the projection domain sequences. This antibody is of very high titre, working well at dilutions of 1:10,000.

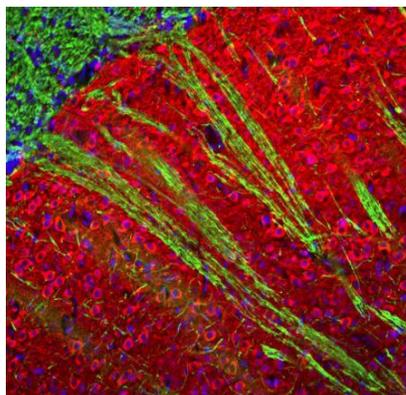


Image: Immunofluorescent analysis of rat brain striatum stained with rabbit pAb to microtubule associated protein 2A and 2B isotypes (MAP2A/B), RA22152, dilution 1:10,000 in red, and costained with chicken pAb to myelin basic protein (MBP) in green. The blue is Hoechst staining of nuclear DNA. The MAP2A/B antibody stains dendrites and perikarya of neurons, while the MBP antibody labels oligodendrocytes and myelin sheathes around axons.

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