

## Anti-MAP2 Polyclonal Antibody 4

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 199 kDa.
Purification:	Protein A purified

### Applications

Verified Activity:	<ol style="list-style-type: none"><li>1. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MAP2 Polyclonal Antibody, Unconjugated (TMAB-08563) at 1:1500 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.</li><li>2. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MAP2 Polyclonal Antibody, Unconjugated (TMAB-08563) at 1:1500 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.</li><li>3. Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MAP2 Polyclonal Antibody, Unconjugated (TMAB-08563) at 1:1500 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.</li><li>4. Paraformaldehyde-fixed, paraffin embedded Rat Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MAP2 Polyclonal Antibody, Unconjugated (TMAB-08563) at 1:1500 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.</li><li>5. Paraformaldehyde-fixed, paraffin embedded Human Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MAP2 Polyclonal Antibody, Unconjugated (TMAB-08563) at 1:1500 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.</li></ol>
Application:	IF,IHC-P,IHC-Fr
Recommended	IF: 1:300-1500; IHC-P: 1:300-1500; IHC-Fr: 1:300-1500

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human MAP2  
Antigen Species: Human  
Gene ID: 4133  
Uniprot ID: P11137

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### Research Background

MAP2 is the major microtubule associated protein of brain tissue. There are three forms of MAP2; two are similarly sized with apparent molecular weights of 280 kDa (MAP2a and MAP2b) and the third with a lower molecular weight of 70 kDa (MAP2c). In the newborn rat brain, MAP2b and MAP2c are present, while MAP2a is absent. Between postnatal days 10 and 20, MAP2a appears. At the same time, the level of MAP2c drops by 10-fold. This change happens during the period when dendrite growth is completed and when neurons have reached their mature morphology. MAP2 is degraded by a Cathepsin D-like protease in the brain of aged rats. There is some indication that MAP2 is expressed at higher levels in some types of neurons than in other types. MAP2 is known to promote microtubule assembly and to form side-arms on microtubules. It also interacts with neurofilaments, actin, and other elements of the cytoskeleton.

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