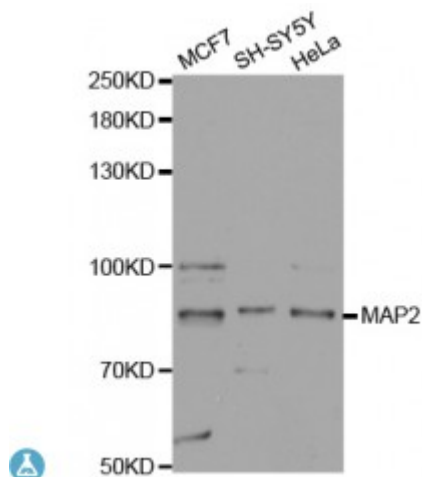


## Anti-MAP2 Antibody



### Description

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.

<b>Model</b>	STJ114887
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Rat
<b>Applications</b>	IHC, WB
<b>Immunogen</b>	Recombinant fusion protein containing a sequence corresponding to amino acids 260-559 of human Map2 (NP_001034627.1).
<b>Gene ID</b>	<a href="#">4133</a>
<b>Gene Symbol</b>	<a href="#">MAP2</a>
<b>Dilution range</b>	WB 1:500 - 1:2000 IHC 1:50 - 1:200
<b>Purification</b>	Affinity purification
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	Microtubule-associated protein 2 MAP-2
<b>Molecular Weight</b>	199.526 kDa

<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
<b>Storage Instruction</b>	Store at -20C. Avoid freeze / thaw cycles.
<b>Database Links</b>	<a href="#">HGNC:6839OMIM:157130</a>
<b>Alternative Names</b>	Microtubule-associated protein 2 MAP-2
<b>Function</b>	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
<b>Cellular Localization</b>	Cytoplasm, cytoskeleton
<b>Post-translational Modifications</b>	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 , 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 ,