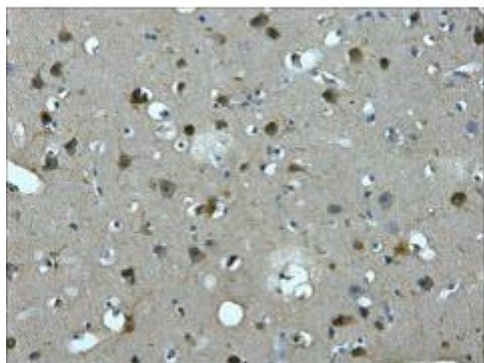


Anti-MAP2 antibody



Description

MAP2 is a protein encoded by the MAP2 gene which is approximately 199,5 kDa. MAP2 is localised to the cytoplasm. It is involved in the taxane pathway, neural stem cell differentiation pathways, the TGF-beta pathway and LKB1 signalling events. It is thought to be involved in microtubule assembly, which is an essential step in neurogenesis. MAP2 is expressed in the cells of the nervous system, intestine, heart, pancreas and liver. Mutations in the MAP2 gene may result in ganglioglioma. STJ96969 was developed from clone 7D4 and was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. This primary antibody detects endogenous MAP2 proteins.

Model	STJ96969
Host	Mouse
Reactivity	Human, Mouse, Rat
Applications	IHC
Immunogen	Synthetic Peptide
Gene ID	4133
Gene Symbol	MAP2
Dilution range	IHC 1:200
Specificity	The antibody detects endogenous MAP2 proteins.
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Clone ID	7D4

Note	For Research Use Only (RUO).
Protein Name	Microtubule-associated protein 2 MAP-2
Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG1
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:6839OMIM:157130
Alternative Names	Microtubule-associated protein 2 MAP-2
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.
Cellular Localization	Cytoplasm, cytoskeleton Cell projection, dendrite
Post-translational Modifications	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 .

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