

## MAP-2 Monoclonal Antibody

<b>Catalog No :</b>	YM1061
<b>Reactivity :</b>	Human;Mouse;Rat;Bovine;Pig
<b>Applications :</b>	WB;IF
<b>Target :</b>	MAP-2
<b>Gene Name :</b>	MAP2
<b>Protein Name :</b>	Microtubule-associated protein 2
<b>Human Gene Id :</b>	4133
<b>Human Swiss Prot No :</b>	P11137
<b>Mouse Swiss Prot No :</b>	P20357
<b>Rat Swiss Prot No :</b>	P15146
<b>Immunogen :</b>	Purified recombinant human MAP-2 (N-terminus) protein fragments expressed in E.coli.
<b>Specificity :</b>	MAP-2 Monoclonal Antibody detects endogenous levels of MAP-2 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:1000 - 1:2000. IF 1:100 - 1:500. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 200kD

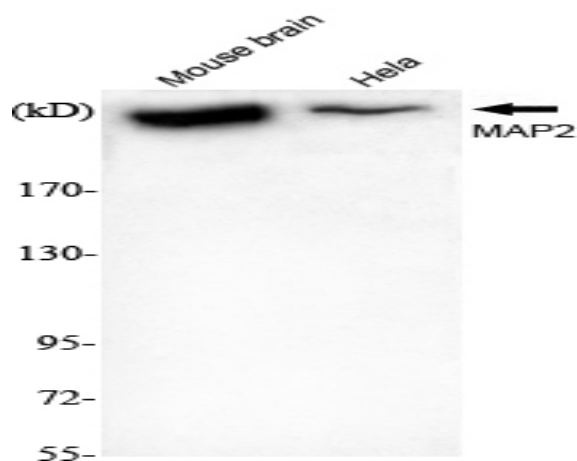
**Background :** This gene encodes a protein that belongs to the microtubule-associated protein family. The proteins of this family are thought to be involved in microtubule assembly, which is an essential step in neurogenesis. The products of similar genes in rat and mouse are neuron-specific cytoskeletal 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. [provided by RefSeq, Jan 2010],

**Function :** alternative products:Additional isoforms seem to exist,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.,PTM:MAP2A/c is phosphorylated. Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Contains 3 Tau/MAP repeats.,similarity:Contains 4 Tau/MAP repeats.,

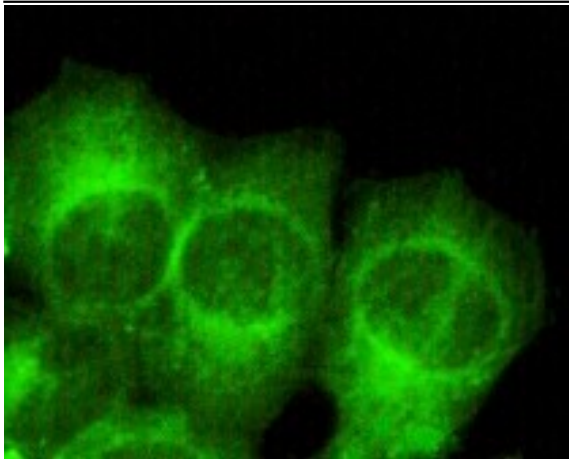
**Subcellular Location :** Cytoplasm, cytoskeleton . Cell projection, dendrite .

**Expression :** Brain,Brain cortex,Epithelium,Pancreas,Testis,

## Products Images



Western Blot analysis using MAP-2 Monoclonal Antibody against mouse brain, HeLa cell lysate.



Immunofluorescence analysis of HeLa cells using MAP-2 Monoclonal Antibody.