

Anti-MAP2 Antibody (1Q259)

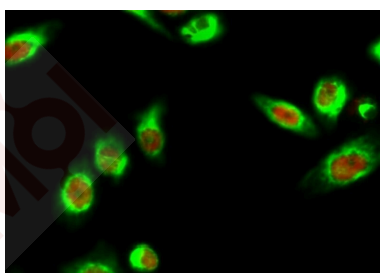
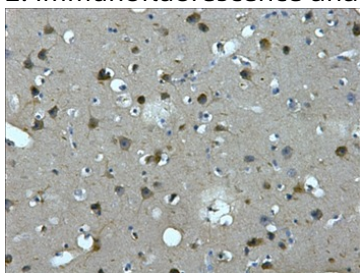
Product Details

Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Clone:	1Q259
Purification:	Affinity purification using immunogen.

Applications

Verified Activity:

1. IHC staining of paraffin-embedded Human brain tissue with MAP2 mouse mAb diluted at 1:200.
2. Immunofluorescence analysis of Hela cell.



Application:	IF,IHC
Recommended	IHC: 1:200; IF: 1:50-200

Properties

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

Antigen Details

Uniprot ID: P11137
Synonyms: MNPEP;p67eIF2;p67;MAP2

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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