

Product datasheet for **BP157**

Microtubule Associated Protein 2 (MAP2 + Tau) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Immunohistochemistry on frozen sections (1:5 - 1:30). Western blot (Recognises mainly the MAP2 protein (280 kD) and to a lesser extent the Tau protein (60 kD) in blotting using bovine brain extract. When testing against rat brain extract this antibody shows strong bands at 60 kD and fainter bands at the higher molecular weights. This could be due to differences in the sample preparation).
Reactivity:	Bovine
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Native, from brain
Specificity:	This antibody detects Microtubule Associated Protein 2 (+ tau).
Formulation:	PBS, pH 7.2, 0.09 % Sodium Azide State: Serum State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Prepared by Ammonium Sulphate fractionation
Conjugation:	Unconjugated
Storage:	Store the antibody at -20 °C. Ship at 2 - 8 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.



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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.