

bs-23816R**[Primary Antibody]****MAP2 Rabbit pAb****Bioss**
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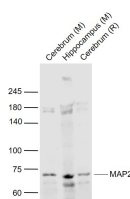
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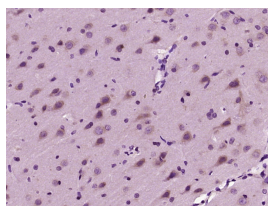
400-901-9800

— DATASHEET —

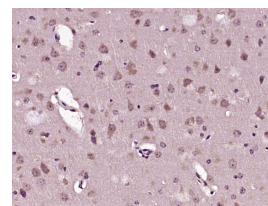
Host: Rabbit Clonality: Polyclonal GeneID: 4133 Target: MAP2 Immunogen: KLH conjugated synthetic peptide derived from human MAP2: 1651-1750/1827. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. 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.	Isotype: IgG SWISS: P11137	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Mouse, Rat (predicted: Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse) Predicted MW.: 70/201 kDa Subcellular Location: Cytoplasm ,Nucleus
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— VALIDATION IMAGES —

Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug
 Lane 2: Hippocampus (Mouse) Lysate at 40 ug
 Lane 3: Cerebrum (Rat) Lysate at 40 ug
 Primary: Anti-MAP2 (bs-23816R) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 280/70-82 kD
 Observed band size: 72 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MAP2) Polyclonal Antibody, Unconjugated (bs-23816R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MAP2) Polyclonal Antibody, Unconjugated (bs-23816R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=4]** Xiaoting Meng, et al. Electrical stimulation induced structural 3D human engineered neural tissue with well-developed neuronal network and functional connectivity. J NEURAL ENG. 2023 Jul; ICC ;Human. 37433290
- **[IF=2.792]** Yan, Wei. et al. Neural, adipocyte and hepatic differentiation potential of primary and secondary hair follicle

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

stem cells isolated from Arbas Cashmere goats. BMC VET RES. 2022 Dec;18(1):1-18 IF ;Goat. 35971123