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MAP2 Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2018e

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P11137
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22664
Calculated MW	199526

Additional Information

Gene ID	4133
Other Names	Microtubule-associated protein 2, MAP-2, MAP2
Target/Specificity	This MAP2 antibody is generated from rabbits immunized with MAP2 recombinant protein.
Dilution	WB~~1:500 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MAP2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MAP2
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 Location	Cytoplasm, cytoskeleton. Cell projection, dendrite {ECO:0000250|UniProtKB:P20357}

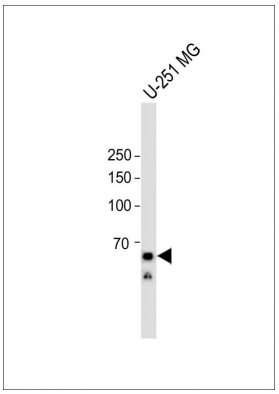
Background

MAP2 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 dentrites, implicating a role in determining and stabilizing dentritic shape during neuron development.

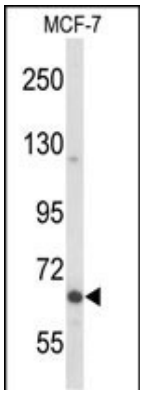
References

Maddodi, N., et al. J. Biol. Chem. 285(1):242-254(2010)
Krishnan, C., et al. Am. J. Surg. Pathol. 33(11):1695-1704(2009)
Gambichler, T., et al. Am. J. Clin. Pathol. 131(5):710-714(2009)
Martins-de-Souza, D., et al. Eur Arch Psychiatry Clin Neurosci 259(3):151-163(2009)
Romeike, B.F., et al. Histopathology 54(4):504-505(2009)

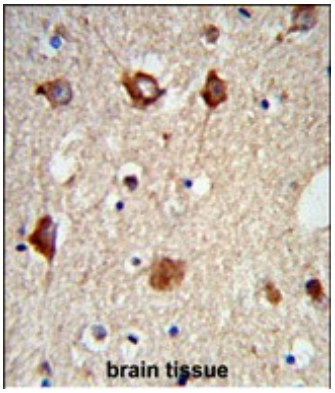
Images



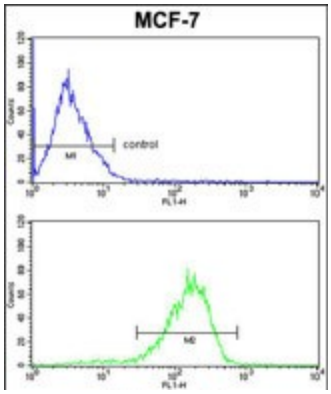
All lanes : Anti-MAP2 Antibody at 1:500 dilution+ U-251 MG Cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 60kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of MAP2 Antibody (Cat. #AP2018e) in MCF-7 cell line lysates (35ug/lane). MAP2 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded mouse brain tissue reacted with MAP2 Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



MAP2 Antibody (Cat.#AP2018e) FC analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.