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# MAP2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2018b

## Product Information

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|---|---|
| **Application** | WB, IHC-P, E |
| **Primary Accession** | P11137 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB02868 |
| **Calculated MW** | 199526 |
| **Antigen Region** | 1766-1796 |

## Additional Information

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| **Gene ID** | 4133 |
| **Other Names** | Microtubule-associated protein 2, MAP-2, MAP2 |
| **Target/Specificity** | This MAP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1766-1796 amino acids from the C-terminal region of human MAP2. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **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. |

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| **Cellular Location** | Cytoplasm, cytoskeleton. Cell projection, dendrite {ECO:0000250\|UniProtKB:P20357} |

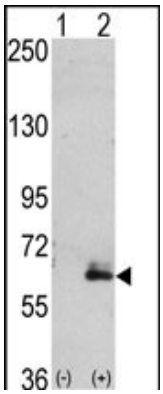
## Background

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 exact function of this gene is still unknown. 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.

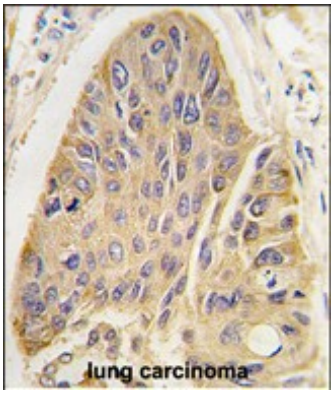
## References


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## Images




Western blot analysis of hMAP2-Q425 (arrow) using rabbit polyclonal hMAP2-Q425 Antibody (RB02868). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the hMAP2-Q425 gene (Lane 2) (Origene Technologies).




Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with hMAP2-Q425 antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistr


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