

Product datasheet for **AP31808PU-N**

MAP2 Chicken Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western Blot. Immunocytochemistry. Immunohistochemistry. <i>Recommended Dilutions:</i> 1/2000-1/5000 for Western blots. 1/1000-1/2000 for Immunohistochemistry and Immunocytochemistry using 2% paraformaldehyde-fixed tissues or cells. Quality Control: This antibody was analyzed by Immunohistochemistry (at a dilution of 1/2000) using Fluorescein-labeled Goat anti-Chicken IgY (1/500 dilution, Cat.-No AP31795FC-N) as the secondary reagent.
Reactivity:	Human, Mouse
Host:	Chicken
Isotype:	IgY
Clonality:	Polyclonal
Immunogen:	Two synthetic peptides KLH conjugated corresponding to different regions of the MAP-2 gene product, but are shared between the Human (NP_002365) and Mouse (P20357) sequences. Production: After repeated injections, immune eggs were collected, the IgY fractions were purified from the yolks. These IgY fractions were then affinity-purified using a peptide column, and the concentrations of the eluates adjusted to 200 µg/ml. Finally, equal volumes of both of these affinity purified anti-peptide antibodies were mixed, and the preparation was filter-sterilized.
Specificity:	Recognizes MAP-2 (Microtubule-Associated Protein-2).
Formulation:	10mM PBS, pH 7.2 containing 0.02% Sodium Azide as preservative. State: Aff - Purified State: Liquid purified (filter sterilized) IgY fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography using a peptide column.



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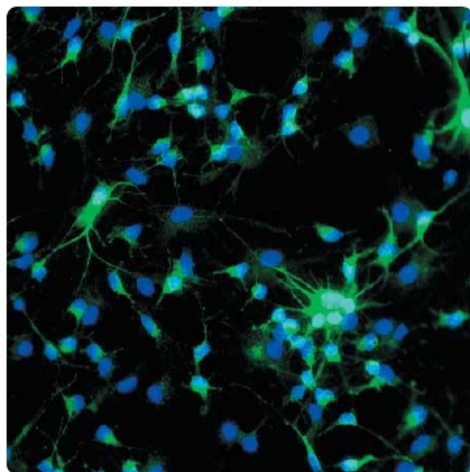
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted in the dark at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	microtubule associated protein 2
Database Link:	Entrez Gene 17756 Mouse Entrez Gene 4133 Human P11137

Background: Human MAP-2 is a 199,296 dalton protein (1827 amino acids) expressed in neurons of the PNS and CNS, where it serves as a major component of the neuronal cytoskeleton. MAP-2 contributes to structural integrity and cell shape. 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 dendrites, implicating a role in determining and stabilizing dendritic shape during neuron development.

Synonyms: Microtubule-associated protein 2, MAP2, Neuronal Marker

Protein Families: Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS

Product images:



Dissociated cell cultures of an e13 Mouse brain showing MAP-2 (green staining) of neurons. DAPI (blue staining) allows visualization of nuclei.