

# MAP2 Monoclonal Antibody (AP20), eFluor 570, eBioscience™

## Product Details

Size	25µg
Host/Isotope	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	AP20
Conjugate	eFluor® 570
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	Assay-Dependent	-
Immunofluorescence (IF)	Assay-Dependent	-
Immunohistochemistry (Frozen) (IHC (F))	5 µg/ml	-
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	-

## Product Specific Information

**Description:** The monoclonal antibody AP20 recognizes the high molecular weight isoforms of microtubule-associated protein-2 (MAP2a and MAP2b) of human, rat, mouse, bovine, chicken, and xenopus. MAP2 belongs to a family of heat-stable phosphoproteins that are differentially expressed during brain development. MAP2 expression is localized to the cell body and dendrites of neurons and is involved in stabilizing microtubules by crosslinking with intermediate filaments. Expression of MAP2 is commonly used as a neural marker given that its expression becomes more pronounced with neuronal maturation.

**Applications Reported:** This AP20 antibody has been reported for use in immunohistochemical staining of frozen tissue sections, immunohistochemical staining of formalin-fixed paraffin embedded tissue sections, microscopy, and immunocytochemistry.

**Applications Tested:** This AP20 antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded human tissue using high or low antigen retrieval at less than or equal to 5 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Filter Recommendation:** When using this eFluor® 570 antibody conjugate, we recommend a filter that will capture the 570 emission wavelength (for example, Excitation 545/25, 565LP, Emission 605/70). A standard Alexa Fluor® 555 or TRITC filter is acceptable.

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