Human MAP2 Antibody

Monoclonal Mouse IgG_3 Clone # 885232

Catalog Number: MAB8304

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MAP2 in direct ELISAs.
Source	Monoclonal Mouse IgG_3 Clone # 885232
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human MAP2 Gly1689-Lys1824 Accession # P11137
Formulation	Lyophilized from a 0.2 μm filtered solution in TBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Immunocytochemistry	0.5-25 µg/mL	See Below
Multiplex Immunofluorescence	20 µg/mL	Immersion fixed paraffin-embedded sections of human Brain Cortex
Immunohistochemistry	0.5-25 µg/mL	See Below

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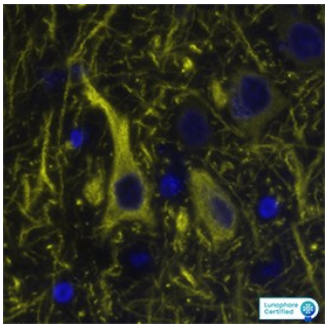
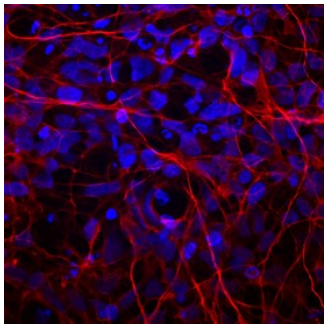
DATA

Multiplex Immunofluorescence



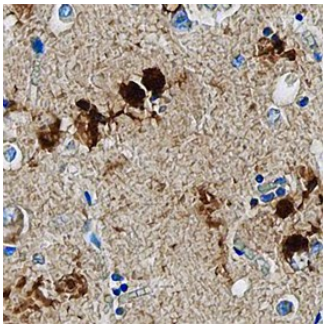
Detection of MAP2 in Human Brain Cortex via seqIF™ staining on COMET™ MAP2 Antibody was detected in immersion fixed paraffin-embedded sections of human Brain Cortex using Mouse Anti-Human MAP2, Monoclonal Antibody (Catalog # Catalog # MAB8304) at 20ug/mL at 37 ° Celsius for 8 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; Epredia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ 647 Goat anti-Mouse IgG Secondary Antibody at 1:200 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # DR647MS) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to the cytoplasm. Protocol available in COMET™ Panel Builder.

Immunocytochemistry



MAP2 in Human Embryonic Stem Cells. MAP2 was detected in immersion fixed human embryonic stem cells/neurospheres using Mouse Anti-Human MAP2 Monoclonal Antibody (Catalog # MAB8304) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for Fluorescent ICC Staining of Stem Cells on Coverslips.

Immunohistochemistry



MAP2 in Human Brain. MAP2 was detected in immersion fixed paraffin-embedded sections of human Alzheimer's brain using Mouse Anti-Human MAP2 Monoclonal Antibody (Catalog # MAB8304) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to neurofibrillary tangles and plaques. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

MAP2 (Microtubule-associated protein 2) is a 1827 amino acid (aa) cytoskeletal associated protein. Human MAP2 shares 84% and 79% aa identity with mouse and rat MAP2, respectively. Multiple splice forms exist, resulting in 4 distinct isoforms. MAP2 functions in microtubule polymerization and stabilization in both normal and malignant cell types. It has been demonstrated to play a critical role in neurite outgrowth and loss of MAP2 function in neurons may lead to neural degeneration.

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