NEUROMICS

MAP2   Data Sheet

Catalog Number:	GT22102	**Host:**	Goat
Product Type:	Goat Polyclonal	**Species Reactivity:**	Human, rat and mouse
Immunogen Sequence:	Recombinant Human, amino acid sequences 377-15405	**Format:**	Purified liquid antibody in 50% PBS, 50% glycerol plus 5mM of Sodium Azide Concentration: 1mg/ml.
Entrez:	4133	**UniProt:**	P11137
Applications:	Immunofluorescence: 1:1,000-1:2,000 Immunohistochemistry: 1:1,000-1:2,000 Immunocytochemistry: 1:1,000-1:2,000 Western Blot: 1:2,000		

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Storage: Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.
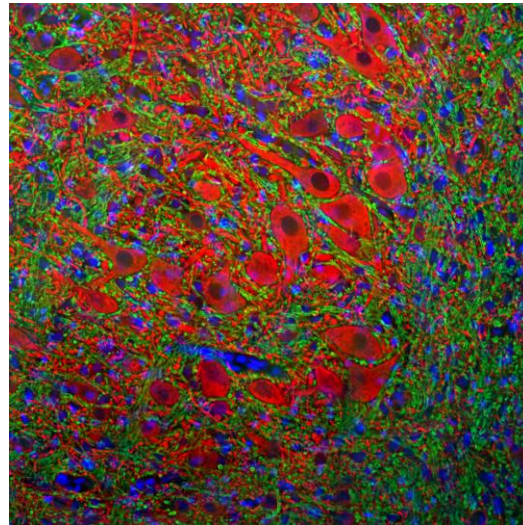
Application Notes

Description/Data:
This antibody was raised against recombinant human "projection domain", amino acids 377-1505; which are expressed in MAP2A and MAP2B. MAP2 isoforms are expressed only in neuronal cells and specifically in perikarya and dendrites of neurons; therefore, MAP2 makes an excellent marker for neuronal cells. MAP2A and MAP2B isoforms are expressed later in neuronal development than MAP2C and MAP2D.

MAP2A and MAP2B isoforms appear at ~280kDa on SDS-PAGE gels.

Image: Immunofluorescent analysis of rat brain stem section stained with goat pAb to MAP2, GT22102, dilution 1:2,000 in red, and costained with mouse mAb to MBP, MO22121 dilution 1:5,000, in green. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µM, and free-floating sections were stained with above antibodies. The goat MAP2 antibody labels MAP2 protein in the perikarya and dendrites of the most neurons, notably motorneurons in the brain stem, and the MBP antibody stains myelin sheath around axons.

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Neuromics Antibodies • 5325 West 74th Street, Suite 8 • Edina, MN 55439
phone 866-350-1500 • fax 612-677-3976 • e-mail: pshuster@neuromics.com