CNP antibody

Catalog No: #38166



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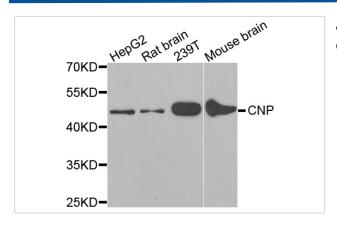
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Antibodies were purified by affinity purification using immunogen.		
The antibody detects endogenous level of total CNP antibody.		
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ogen Description Recombinant protein of human CNP.		
P1		
43NCBI Gene ID: 1267		
mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02%		
50% glycerol.		
1		

Application Details

Western blotting: 1:500 - 1:2000

Images



Western blot analysis of extracts of various cell lines, using CNP antibody.

Background

CNPase (2', 3B'B—cyclic nucleotide 3'-phosphodiesterase) catalyzes the in vitro hydrolysis of 2B'B—, 3B'B—cyclic nucleotides to produce 2B'B—nucleotides. The in vivo molecular function and native substrate of this nucleotide phosphodiesterase remains under investigation (1). High CNPase expression is seen in oligodendrocytes and Schwann cells as CNPase accounts for roughly 4% of the total myelin protein in the central nervous system (2). CNPase binds to tubulin heterodimers and plays a role in tubulin polymerization, and oligodendrocyte process outgrowth (3).

Typical myelination is seen in CNPase knock-out mice, but they suffer severe neurodegeneration from axonal loss and oligodendrocytes display abnormal paranodal loop structure prior to axonal degeneration. Paranodal loops typically contact the axolemma in axon-glial signaling; neurodegeneration in CNPase knock-out mice is a secondary consequence of impaired cell-cell communication (4).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.