

Product datasheet for TA332390

CNPase (CNP) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ICC/IF, IHC, WB

Recommended Dilution: WB 1:500 - 1:2000

Reactivity: Human, Mouse, Rat

Host: Rabbit

Isotype: IgG

Clonality: Polyclonal

Immunogen: Recombinant protein of human CNP

Formulation: Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles. Buffer: PBS with

0.02% sodium azide, 50% glycerol, pH7.3.

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 421

Gene Name: 2',3'-cyclic nucleotide 3' phosphodiesterase

Database Link: NP 149124

Entrez Gene 12799 MouseEntrez Gene 25275 RatEntrez Gene 1267 Human

P09543



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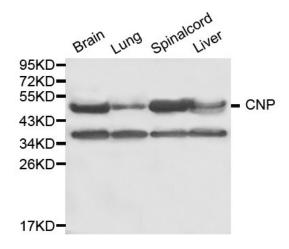


Background:

CNPase (2', 3â??-cyclic nucleotide 3'-phosphodiesterase) catalyzes the in vitro hydrolysis of 2â??, 3â??-cyclic nucleotides to produce 2â??-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).

Synonyms: CNP1

Product images:



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