

# Anti-CNP (2,3-cyclic nucleotide-3-phosphodiesterase) Antibody

Our Anti-CNP (2,3-cyclic nucleotide-3-phosphodiesterase) primary antibody from PhosphoSolutions is r  
Catalog # AN1342

## Product Information

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|--------------------------|------------------------|
| <b>Application</b>       | WB, IHC                |
| <b>Primary Accession</b> | <a href="#">P13233</a> |
| <b>Reactivity</b>        | Rat                    |
| <b>Host</b>              | Rabbit                 |
| <b>Clonality</b>         | Polyclonal             |
| <b>Isotype</b>           | IgG                    |
| <b>Calculated MW</b>     | 47268                  |

## Additional Information

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|---------------------------|---|
| <b>Gene ID</b>            | 25275   |
| <b>Other Names</b>        | 2" antibody, 2'3' cyclic nucleotide 3' phosphodiesterase antibody, 3"-cyclic-nucleotide 3"-phosphodiesterase antibody, CN37_HUMAN antibody, CNP 1 antibody, CNP antibody, CNP1 antibody, CNPase antibody  |
| <b>Target/Specificity</b> | 2,3-cyclic nucleotide-3-phosphodiesterase (CNP) is a membrane bound, microtubule associated protein that is among the most abundant myelin proteins of the CNS. It is thought that CNP may serve as a regulator of tubulin polymerization and of microtubule distribution (Bifulco et al., 2002). It was recently found that CNP may also function as a possible linker protein anchoring microtubules to the plasma membrane via a 13 residue C-terminal CNP fragment (Bifulco et al., 2002, Esposito et al., 2008). |
| <b>Dilution</b>           | WB~~1:1000 IHC~~1:100~500   |
| <b>Format</b>             | Neat serum  |
| <b>Storage</b>            | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.  |
| <b>Precautions</b>        | Anti-CNP (2,3-cyclic nucleotide-3-phosphodiesterase) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.   |
| <b>Shipping</b>           | Blue Ice  |

## Background

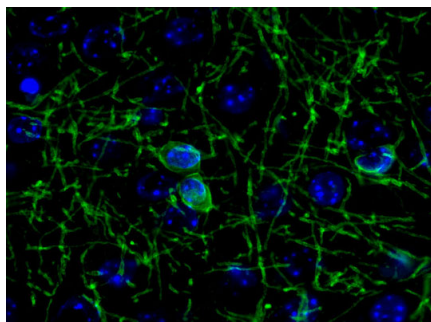
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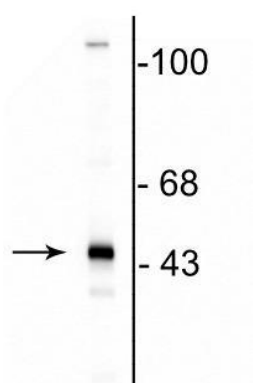
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## Images

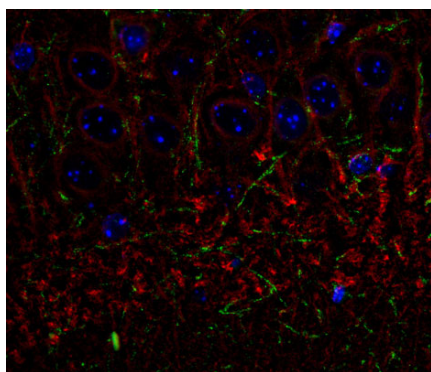
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Immunofluorescence staining of saline treated mouse cortex cryosections showing specific labeling of CNP(cat. AN1342, green, 1:500). The blue is staining DNA. The bisected longitudinal mouse brain was fixed for 18h in 4% paraformaldehyde, washed, and cryoprotected in 30% sucrose overnight. The cryosections were antigen retrieved in citrate buffer, blocked in 20% normal goat serum for 1 hr. Photo courtesy of Robert Wine.



Western blot of rat brain lysate showing the specific immunolabeling of the ~46 kDa CNP protein.



Immunolabelling of the CA3 subfield of mouse hippocampus labeling CNP (cat. AN1342, green, 1:500) and  $\beta$ -III tubulin(cat. 2020-TUB, 1:1000, red). The blue is DAPI staining DNA. Original magnification is 40X. Photo courtesy Rob Wine.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.