

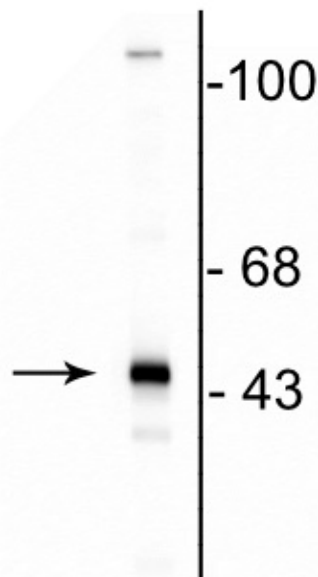
Product Datasheet

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

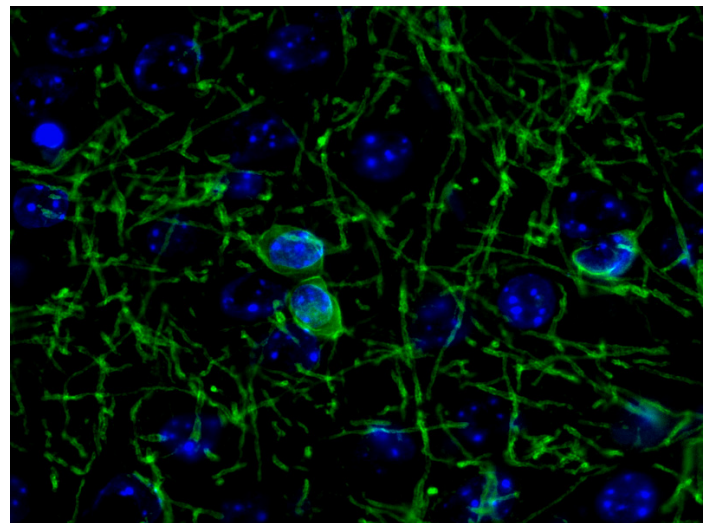
Overview

Catalog #	325-CNP
Host Species	Rabbit Polyclonal
Format	Neat serum
Applications	WB 1:1000 IHC 1:500-1:1000
Species Tested	Human, Mouse, Rat, Sheep
Immunogen	Endogenous rabbit 2,3 cyclic nucleotide-3-phospho-diesterase.
Molecular Weight	46 kDa
Cite this Antibody	PhosphoSolutions Cat# 325-CNP, RRID: AB_2492063

Images



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



Immunofluorescence staining of saline treated mouse cortex cryosections showing specific labeling of CNP (cat # 325-CNP, 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.

Details

Target Description	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).
Specificity	Specific for endogenous levels of the ~46 kDa CNP protein.
Production/Purification	Neat serum
Quality Control	Western blots performed on each lot.
Buffer	Neat serum
Storage	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 μ L/vial depending on usage) upon arrival and stored long term at -20° C or -80° C, while keeping a working aliquot stored at 4° C for short term. Avoid freeze/thaw cycles.
Stability	After date of receipt, stable for at least 1 year at -20°C.

Significant Citations

Khawaja, R.R., Agarwal, A., Fukaya, M., Jeong, H.K., Gross, S., Gonzalez-Fernandez, E., Soboloff, J., Bergles, D.E. and Kang, S.H., 2021. GluA2 overexpression in oligodendrocyte progenitors promotes postinjury oligodendrocyte regeneration. *Cell Reports*, 35(7), p.109147.

González-Fernández, E., Jeong, H.K., Fukaya, M., Kim, H., Khawaja, R.R., Srivastava, I.N., Waisman, A., Son, Y.J. and Kang, S.H., 2018. PTEN negatively regulates the cell lineage progression from NG2+ glial progenitor to oligodendrocyte via mTOR-independent signaling. *eLife*, 7, p.e32021.

Ramaswamy, S.G. and Jacobowitz, D.M., 1990. A novel autoantibody from a rabbit preimmune serum that immunostains myelinated nerves of the brain. *Brain research bulletin*, 25(1), pp.193-197.

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