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

Catalog#: 325-CNP  Size: 50 µl

Host: Rabbit  Applications: WB 1:1000  IHC 1:1000 (formalin-fixed, Ramaswamy et al. 1990)
Species Tested: H, M, R, S  Species Reactivity*: ~46 kDa  Molecular Reference:

Product Description: Rabbit polyclonal antibody.

Biological Significance: 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).

Antigen: Endogenous rabbit 2,3-cyclic nucleotide-3-phosphodiesterase.

Antibody Specificity: Specific for endogenous levels of the ~46 kDa CNP protein.

Purification Method: Neat serum.

Quality Control Tests: Western blots performed on each lot.

Packaging: 50 µl neat serum.

Storage and Stability: Shipped on blue ice. Store at −20°C in undiluted aliquots; stable for at least 1 year. Avoid freeze/thaw cycles.

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

Immunochromal staining of saline treated mouse cortex cryosections showing specific labeling of CNP in green and DNA in blue. Photo courtesy of Robert Wine.

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General References:

Bifulco et al. 2,3-Cyclic nucleotide 3-phosphodiesterase: a membrane bound, microtubule-associated protein and membrane anchor tubulin. PNAS 99:1807-12, 2002