



PhosphoSolutions®
Antibodies that work™

Colorado Biosciences Park
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Anti-CNP (2,3-cyclic nucleotide-3-phosphodiesterase)

Catalog Number: 325-CNP

Size: 50 µl

Product Description: Rabbit polyclonal antibody

Applications: WB: 1:1000

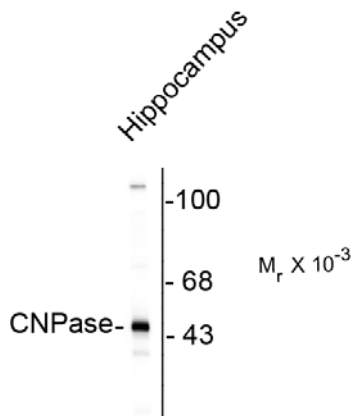
IHC: 1:1000 (formalin-fixed, Ramaswamy et al. 1990)

Antigen: Endogenous rabbit 2,3-cyclic nucleotide-3-phospho-diesterase

Species reactivity: The antibody has been directly tested for reactivity in Western blots with mouse, human, rabbit, rat and sheep tissues.

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).

Anti-CNPase



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

Purification Method: Neat serum

Page 1 of 2

WB = Western Blot **IF** = Immunofluorescence **IHC** = Immunohistochemistry **IP** = Immunoprecipitation

Packaging: 50 ul neat serum

Storage and Stability. For long term storage -20°C is recommended. Stable at -20°C for at least 1 year.

Shipment: Domestic - Blue Ice; International - Blue Ice or Dry Ice.

Antibody Specificity: Specific for the ~ 46k CNP protein in Western blots

Quality Control Tests: Western blots performed on each lot.

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

Esposito C, Scrima M, Carotenuto A, Tedeschi A, Rovero P, D'Ebifulco M, D'Errico G, Malfitano AM, D'Ursi AM (2008) Structures and micelle locations of the nonlipidated and lipidated C-terminal anchor of 2,3-Cyclic nucleotide 3-phosphodiesterase. Biochemistry 47(1): 308-319.

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