

Chicken CNP/CNPase Polyclonal Antibody | anti-CNP/CNPase antibody

CNP/CNPase

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA76704	Chicken	Human, Mouse, Rat, Bovine, Porcine, Equine	Immunofluorescence, Immunohistochemistry, Western Blot, Immunocytochemistry

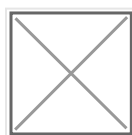
PRODUCT SYNONYMS

CNP/CNPase; Polyclonal Antibody; anti-CNP/CNPase antibody

PRODUCT SPECIFICATIONS

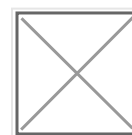
Host	Chicken
Reactivity	Human, Mouse, Rat, Bovine, Porcine, Equine
Clonality	Polyclonal
Isotype	Chicken IgY
Form/Format	Liquid. Supplied as an aliquot of IgY preparation plus 5mM NaN3
Applicable Applications for anti-CNP/CNPase antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ICC (Immunocytochemistry)
Immunogen	Full length human recombinant protein
Preparation and Storage	Antibody can also be aliquotted and stored frozen at -20 degree C in a manual defrost freezer for sixmonths without detectable loss of activity. The antibody can be stored at 2 degree - 8 degree C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of spinal cord tissue lysates using chicken pAb to CNP, AAA76704, dilution 1:5,000, in red: [1] protein standard (red), [2] mouse, [3] rat, and [4] cow spinal cord. A doublet of bands at 46 and 48kDa correspond to isotypes of the CNP protein. The blot was simultaneously probed with mouse mAb to alpha-interneixin in green. Major bands in the 64-66 kDa range corresponds to alpha-interneixin.



IF (Immunofluorescence)

Immunofluorescent analysis of rat cerebellum section stained with chicken pAb to CNP, AAA76704, dilution 1:2,000 in green and costained with rabbit pAb to NF-H in red. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45uM, and free-floating sections were stained with above antibodies.

ADDITIONAL INFORMATION

Related Product Information for anti-CNP/CNPase antibody

The 2',3'-cyclic nucleotide 3'-phosphodiesterase (CNP), is an enzyme which catalyzes the hydrolysis of 2', 3'-cyclic nucleotides to 2'-nucleotides. These cyclic nucleotides are structurally different from the better known and studied 3'-5'-cyclic nucleotides of which the best known example is cyclic AMP. CNP has two isoforms, CNPase 1 (46kDa) and CNPase 2 (48kDa), which are encoded separately by different promoters of the same gene. These enzymes are present in very high levels in brain and peripheral nerve, makes up 4% of total CNS myelin protein. They are found almost exclusively in oligodendrocytes and Schwann cells, appearing early in oligodendrocyte development, earlier than most other myelin specific proteins. Antibodies to CNP have been very useful as a marker for these particular cell types. CNP is thought to play a critical role in the events leading up to myelination, for the oligodendrocytes overexpressing CNP appear to mature earlier in development, resulting in earlier maximum gene expression for myelin basic proteins. It has been reported that CNP is also associated with microtubules in brain tissue and may promote microtubule assembly. CNP can link tubulin to cellular membranes, and may regulate cytoplasmic microtubule distribution. In various diseases, neurological mutants, and in experimental conditions in which myelin is reduced, CNP levels may also be severely reduced. Decreased brain levels of CNP have also been reported in Down syndrome and Alzheimer's disease.

This antibody was made against the full length recombinant form of human CNP expressed in and purified from E coli, and the antibody can be used to identify myelinating cells in cell culture and in sections and to trace axonal projections in sectioned material.

NCBI AND UNIPROT INFORMATION

NCBI GI #	94721261
NCBI GeneID	1267
NCBI Accession #	NP_149124.3
NCBI GenBank Nucleotide #	NM_033133.4
UniProt Accession #	P09543
Molecular Weight	421
NCBI Official Full Name	2',3'-cyclic-nucleotide 3'-phosphodiesterase
NCBI Official Synonym Full Names	2',3'-cyclic nucleotide 3' phosphodiesterase
NCBI Official Symbol	CNP
NCBI Official Synonym Symbols	CNP1
NCBI Protein Information	2',3'-cyclic-nucleotide 3'-phosphodiesterase; CNPase; 2', 3' cyclic nucleotide 3' phosphohydrolase
UniProt Protein Name	2',3'-cyclic-nucleotide 3'-phosphodiesterase
UniProt Gene Name	CNP
UniProt Synonym Gene Names	CNP; CNPase
UniProt Entry Name	CN37_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cnp-cnpase-antibody-immunofluorescence-immunohistochemistry-western-blot-immunocytochemistry-elisa/76704>