

## ARG10754 anti-CNPase antibody

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Chicken Polyclonal antibody to CNP
Tested Reactivity	Hu, Ms, Rat, Cow
Tested Application	ICC/IF, IHC-Fr, WB
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Target Name	CNPase
Species	Human
Immunogen	Full length Human recombinant protein
Conjugation	Un-conjugated
Alternate Names	CNPase; 2',3'-cyclic-nucleotide 3'-phosphodiesterase; CNP1; CNP; EC 3.1.4.37

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:5000 - 1:10000
	IHC-Fr	1:5000 - 1:10000
	WB	1:5000 - 1:10000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

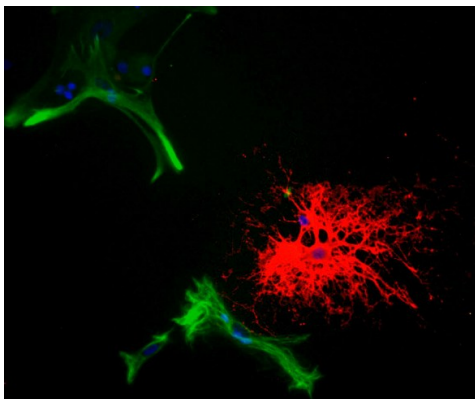
Form	Liquid
Buffer	PBS and 0.02% Sodium azide.
Preservative	0.02% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Symbol	CNP
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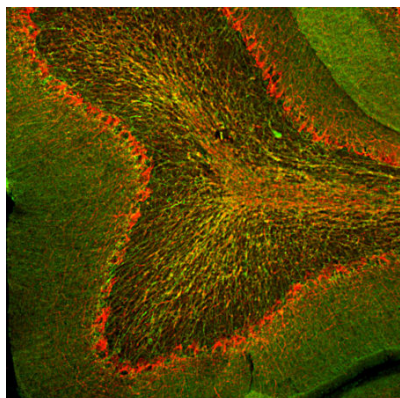
Gene Full Name	2',3'-cyclic nucleotide 3' phosphodiesterase
Function	May participate in RNA metabolism in the myelinating cell, CNP is the third most abundant protein in central nervous system myelin. [UniProt]
Calculated Mw	48 kDa

## Images



ARG10754 anti-CNPase antibody ICC/IF image

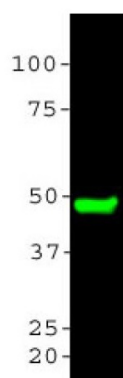
Immunocytochemistry: Rat mixed neuron-glial cell cultures stained with ARG10754 anti-CNPase antibody (red) and co-stained with a Monoclonal 5C10 against GFAP (green). The CNP antibody stains strongly in oligodendrocytes, whereas GFAP labels the intermediate filament in astrocytes. Blue is DNA staining showing the nuclei of these and numerous other cells, most of which are neurons and which do not express either CNP or GFAP.



ARG10754 anti-CNPase antibody IHC-Fr image

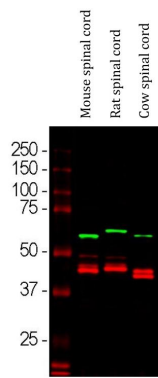
Immunohistochemistry: Frozen section of Rat cerebellum stained with ARG10754 anti-CNPase antibody (green) at 1:2000 dilution and costained with [ARG10761](#) anti-Neurofilament NF-H antibody (red) at 1:10000 dilution. (Sample preparation: Following transcardial perfusion of Rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45  $\mu$ M, and free-floating sections were stained with above antibodies.)

The CNPase antibody stains myelin and oligodendrocytes, cells that create the myelin sheath around axons. The NF-H antibody labels the heavily phosphorylated axonal forms of NF-H which are localized in large projection axons.



ARG10754 anti-CNPase antibody WB image

Western blot: Rat brain tissue homogenates stained with ARG10754 anti-CNPase antibody at 1:5000.



#### ARG10754 anti-CNPase antibody WB image

Western blot: Mouse spinal cord, Rat spinal cord and Cow spinal cord lysates stained with ARG10754 anti-CNPase antibody (red) at 1:5000 dilution. The blot was simultaneously stained with Mouse mAb to alpha Internexin (green) at 1:2000 dilution.