Anti-CNPase Antibody (A85409)

Specifications:

Name:	Anti-CNPase Antibody
Description:	Chicken polyclonal antibody to CNPase.
Applications:	WB, ICC/IF, IHC
Recommended Dilutions:	WB: 1:5,000-1:10,000, ICC/IF: 1:2,000, IHC: 1:2,000
Reactivity:	Human, Rat, Mouse, Bovine, Porcine, Horse
Immunogen:	Recombinant full-length human CNPase, expressed in and purified from E. coli.
Host:	Chicken
Clonality:	Polyclonal
Isotype:	IgY
Conjugate:	Unconjugated
Molecular Weight:	46 kDa, 48 kDa
Purity:	IgY preparation.
Product Form:	Liquid
Formulation:	Supplied as an aliquot of IgY preparation with 5mM Sodium Azide.
Storage:	Stable at 4°C for one year. For long term storage, mix 1:1 with 100% glycerol and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This antibody can be used to identify myelinating cells in cell culture and in sections, and to trace axonal projections in sectioned material.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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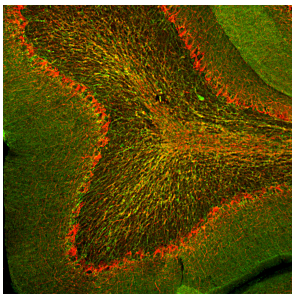
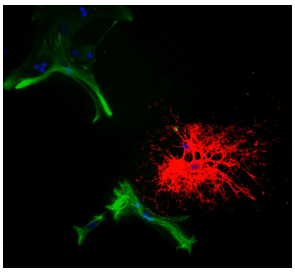
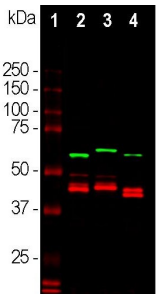
Images:



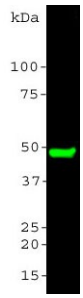
Immunofluorescent analysis of rat cerebellum section stained with Anti-CNPase Antibody (1:2,000 | green) and Anti-NF-H Anitbody (A85336 | 1:10,000 | red). Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µM, and free-floating sections were stained with the above antibodies. The Anti-CNPase Antibody stains myelin and oligodendrocytes, cells that create the myelin sheath around axons. The Anti-NF-H Antibody labels the heavily phosphorylated axonal forms of NF-H which are localized in large projection axons.



Mixed neuron-glial cell cultures stained with Anti-CNPase Antibody (red) and Anti-GFAP Antibody (A85422 | green). The Anti-CNPase Antibody stains strongly in oligodendrocytes, whereas Anti-GFAP Antibody 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.



Western blot analysis of spinal cord tissue lysates using Anti-CNPase Antibody (1:5,000 | red): [1] protein standard (red), [2] mouse, [3] rat, and [4] cow spinal cord. A doublet of bands at 46kDa and 48kDa correspond to isotypes of the CNP protein. The blot was simultaneously probed with Anti-Alpha-Internexin Antibody (A85448 | 1:2,000 | green). Major bands in the 64-66 kDa range corresponds to a-internexin.



Blot of rat brain tissue homogenates probed with Anti-CNPase Antibody (1:5,000) using LiCor infrared imager. Anti-CNPase Antibody binds strongly and specifically to CNP at ~48 kDa. Numbers at left show positions of protein standards of indicated molecular weight in kDa.