

Rudolf-Wissell-Str. 28 37079 Göttingen, Germany Phone: +49 551-50556-0 Fax: +49 551-50556-384 E-mail: sales@sysy.com Web: www.sysy.com

CNP 1

Cat.No. 355 011AT1; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized, fluorescence-labeled with ATTO [®] 647N. Rabbit serum albumin was added for stabilization. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Either add 1:1 (v/v) glycerol, then aliquot and store at -20°C until use, or store aliquots at -80°C without additives. Reconstitute immediately upon receipt! Avoid bright light when working with the antibody to minimize photo bleeching of the fluorescent dye.
Applications	WB: N/A IP: N/A ICC: 1 : 500 IHC: 1 : 500 IHC-P/FFPE: 1 : 500
Label	ATTO 647N
Clone	335C6
Subtype	IgG2a (κ light chain)
Immunogen	Recombinant protein corresponding to AA 1 to 420 from mouse CNP1 (UniProt Id: P16330)
Epitop	Epitop: AA 1 to 420 from mouse CNP1 (UniProt Id: P16330)
Reactivity	Reacts with: rat (P13233), mouse (P16330). Other species not tested yet.
Specificity	Specific for CNP 1. (K.O. verified)

TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

The 2', 3'-cyclic nucleotide 3'-phosphodiesterase **CNP 1**, also referred to as CNPase and CNP, is one of the most abundant membrane-associated enzymes in the myelin sheath of the vertebrate nervous system.

It is assumed that CNP 1 participates in RNA metabolism of myelinating oligodendrocytes.

Selected General References

Myelin 2',3'-cyclic nucleotide 3'-phosphodiesterase: active-site ligand binding and molecular conformation. Myllykoski M, Raasakka A, Han H, Kursula P PloS one (2012) 7(2): e32336.

Resilient emotionality and molecular compensation in mice lacking the oligodendrocyte-specific gene Cnp1. Edgar NM, Touma C, Palme R, Sibille E Translational psychiatry (2011) 1: e42.

Disruption of Cnp1 uncouples oligodendroglial functions in axonal support and myelination. Lappe-Siefke C, Goebbels S, Gravel M, Nicksch E, Lee J, Braun PE, Griffiths IR, Nave KA Nature genetics (2003) 33(3): 366-74.

Differential ultrastructural localization of myelin basic protein, myelin/oligodendroglial glycoprotein, and 2',3'-cyclic nucleotide 3'-phosphodiesterase in the CNS of adult rats. Brunner C. Lassmann H. Waehneldt TV. Matthieu JM. Linington C

Journal of neurochemistry (1989) 52(1): 296-304.

Immunocytochemical localization by electron microscopy of 2'3'-cyclic nucleotide 3'-phosphodiesterase in developing oligodendrocytes of normal and mutant brain. Braun PE, Sandillon F, Edwards A, Matthieu JM, Privat A

The Journal of neuroscience : the official journal of the Society for Neuroscience (1988) 8(8): 3057-66.