10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CNP Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21577a

Product Information

Application	WB, E
Primary Accession	P09543
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB53048
Calculated MW	47579

Additional Information

Gene ID	1267
Other Names	2', 3'-cyclic-nucleotide 3'-phosphodiesterase, CNP, CNPase, CNP
Target/Specificity	This CNP antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 92-126 amino acids from human CNP.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CNP Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CNP (HGNC:2158)
Function	Myelin-associated enzyme that catalyzes the phosphodiester hydrolysis of 2',3'-cyclic nucleotides to 2'-nucleotides. In the mitochondria, regulates the functioning of the mitochondrial permeability transition pore (mPTP), and thus is involved in the mechanisms of cell death, both apoptosis and necrosis. Acts as an antiviral factor by suppressing the assembly of SARS-CoV-2 virions (PubMed:38117830).

Cellular Location	Melanosome. Mitochondrion. Note=Firmly bound to membrane structures of brain white matter {ECO:0000250|UniProtKB:P16330}

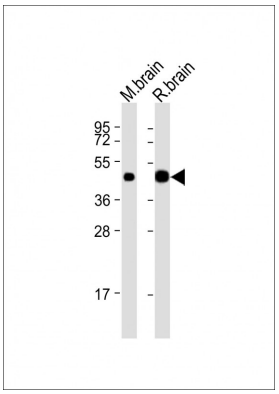
Background

May participate in RNA metabolism in the myelinating cell, CNP is the third most abundant protein in central nervous system myelin.

References

Thompson R.J.,et al.Biochem. Soc. Trans. 20:621-626(1992).
Kurihara T.,et al.Biochem. Biophys. Res. Commun. 152:837-842(1988).
Monoh K.,et al.Gene 129:297-301(1993).
Douglas A.J.,et al.Ann. Hum. Genet. 56:243-254(1992).
Zody M.C.,et al.Nature 440:1045-1049(2006).

Images



All lanes : Anti-CNP Antibody (N-Term) at 1:2000 dilution Lane 1: mouse brain lysates Lane 2: rat brain lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.