

Datasheet for ABIN4886542

anti-Cnpase antibody (Middle Region)

1 Image

1 Publication



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Cnpase (CNP)
Binding Specificity:	AA 142-178, Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cnpase antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-CNPase Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human CNPase, identical to the related mouse sequence, and different from the related rat sequence by one amino acid.
Sequence:	QYQVVLVEPK TAWRLDCAQL KEKNQWQLSA DDLKKLK
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-CNPase Antibody Picoband® (ABIN4886542). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband,

Product Details

ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: Cnpase (CNP)

Alternative Name: CNP ([CNP Products](#))

Background: Synonyms: 2',3'-cyclic-nucleotide 3'-phosphodiesterase,CNP,CNPase,3.1.4.37,CNP, Background: 2',3'-Cyclic-nucleotide 3'-phosphodiesterase, also known as CNPase, is an enzyme that in humans is encoded by the CNP gene. And this gene is mapped to 17q21.2. CNPase is named for its ability to catalyze the phosphodiester hydrolysis of 2',3'-cyclic nucleotides to 2'-nucleotides. CNPase is thought to play a critical role in the events leading up to myelination. Additionally, CNPase has been demonstrated to inhibit the replication of HIV-1 and other primate lentiviruses by binding the retroviral Gag protein and inhibiting the genesis of nascent viral particles.

Molecular Weight: 47 kDa

Gene ID: 1267

UniProt: [P09543](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat
1. "Entrez Gene: CNP 2',3'-cyclic nucleotide 3' phosphodiesterase". 2. Hinman JD, Chen CD, Oh SY, Hollander W, Abraham CR (Jan 2008). "Age-dependent accumulation of ubiquitinated 2',3'-cyclic nucleotide 3'-phosphodiesterase in myelin lipid rafts". Glia. 56 (1): 118-33. 3. Sprinkle TJ, Lanclos KD, Lapp DF (Jul 1992). "Assignment of the human 2',3'-cyclic nucleotide 3'-phosphohydrolase gene to chromosome 17". Genomics. 13 (3): 877-80.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

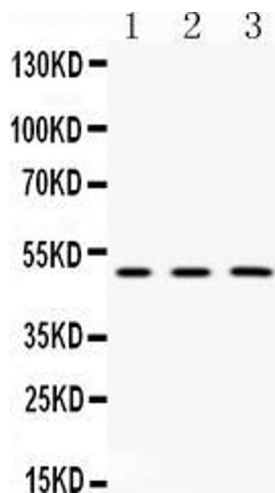
Handling

Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in:	Cai, Ma, Li, Tian, Li: "Catalpol Protects Pre-Myelinating Oligodendrocytes against Ischemia-induced Oxidative Injury through ERK1/2 Signaling Pathway." in: International journal of biological sciences , Vol. 12, Issue 12, pp. 1415-1426, (2017) (PubMed).
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Images



Western Blotting

Image 1. Western blot analysis of CNPase expression in rat brain extract (Lane 1), mouse brain extract (Lane 2) and HELA whole cell lysates (Lane 3). CNPase at 47KD was detected using rabbit anti- CNPase Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).