

## Product Information

### Anti-CNPase

produced in rabbit, affinity isolated antibody

Catalog Number **C9743**

### Product Description

Anti-CNPase is produced in rabbit using as immunogen a synthetic peptide corresponding to residues 122-136 [DDTNHERERLEQLFE] of human CNPase (GeneID 1267). This sequence is 93% identical in mouse and rat. The antibody is affinity-purified.

Anti-CNPase recognizes human CNPase. Applications include the detection of CNPase by immunoblotting, immunohistochemistry, and flow cytometry.

2',3'-cyclic nucleotide 3'-phosphodiesterase (CNPase) is associated with brain tubulin and acts as a microtubule-associated protein in promoting microtubule assembly and distribution. CNPase is used as a marker of cell differentiation in the CNS as it is expressed primarily in committed oligodendroglial progenitors and terminally-differentiated oligodendrocytes.

### Reagent

Supplied as a solution in phosphate buffered saline, containing 0.02% sodium azide.

Antibody concentration: ~1.0 mg/mL

### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

### Storage/Stability

For continuous use, store at 2-8 °C for up to three months. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended.

### Product Profile

**Immunoblotting:** a working dilution of 1:500 to 1:1,000 is recommended.

**Immunohistochemistry:** a working dilution of 1:100 to 1:200 is recommended.

**Flow cytometry:** a working dilution of 1:200 to 1:500 is recommended.

**Note:** In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

### References

1. Ishii, T., et al., Gene expression of oligodendrocyte markers in human amniotic epithelial cells using neural cell-type-specific expression system. *Neurosci Lett.* Jun 25; **268**(3):131-4 (1999).
2. Staugaitis, S. M., et al., Expression of the oligodendrocyte marker 2',3'-cyclic nucleotide 3'-phosphodiesterase in non-glial cells. *J. Neurosci. Res.* **25**(4), 556-560 (1990).
3. Thompson, R. J., 2',3'-cyclic nucleotide-3'-phosphohydrolase and signal transduction in central nervous system myelin. *Biochem. Soc. Trans.* **20**(3), 621-626 (1992).
4. Douglas, A. J., et al., Structure and chromosomal localization of the human 2',3'-cyclic nucleotide 3'-phosphodiesterase gene. *Ann. Hum. Genet.* **56** (PT 3), 243-254 (1992).

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