

Datasheet: 2080-0101

Description:	MOUSE ANTI RAT CHOLINE ACETYLTRANSFERASE
Specificity:	CHOLINE ACETYLTRANSFERASE
Other names:	ChAT
Format:	Ascites
Product Type:	Monoclonal Antibody
Clone:	1E6
Isotype:	IgG1
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	■			1/100 - 1/250

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species	Rat
Species Cross Reactivity	Reacts with: Chicken N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Ascitic Fluid
Preservative Stabilisers	None present.
Immunogen	Choline acetyltransferase purified from rat brain.
External Database Links	UniProt: P32738 Related reagents Entrez Gene: 290567 Chat Related reagents
RRID	AB_2260533

Specificity **Mouse anti Rat choline acetyltransferase antibody, clone 1E6** recognizes choline acetyltransferase and stains cholinergic neurons in the brain and central nervous system.

Choline acetyltransferase is an enzyme, present the presynaptic ends of axons, that catalyzes the transfer of the acetyl group of acetyl CoA to choline, forming the neurotransmitter acetylcholine.

References

1. Hagg, T. *et al.* (1988) Delayed treatment with nerve growth factor reverses the apparent loss of cholinergic neurons after acute brain damage [Exp Neurol. 101: 303 - 312](#)
2. Dietz, G. W., Jr. & Salvaterra, P. M. (1980) Purification and peptide mapping of rat brain choline acetyltransferase [J. Biol. Chem. 255: 10612 - 10617](#).
3. Crawford, G. D., *et al.* (1982) Interaction of monoclonal antibodies with mammalian choline acetyltransferase. [Proc Natl Acad Sci U S A. 79: 7031 - 7035](#).
4. Matthews, D. A. *et al.* (1987) An immunocytochemical study of choline acetyltransferase-containing neurons and axon terminals in normal and partially deafferented hippocampal formation [Brain Res. 402: 30 - 43](#)
5. Hagg, T. *et al.* (1989) Nerve growth factor (NGF) reverses axotomy-induced decreases in choline acetyltransferase, NGF receptor and size of medial septum cholinergic neurons [Brain Res. 505: 29 - 38](#).
6. Lindh, B., *et al.* (1986) Immunohistochemical demonstration of choline acetyltransferase-immunoreactive preganglionic nerve fibers in guinea pig autonomic ganglia. [Proc Natl Acad Sci U S A. 83: 5316 - 5320](#).
7. Hagg, T. *et al.* (1992) Ciliary neurotrophic factor prevents neuronal degeneration and promotes low affinity NGF receptor expression in the adult rat CNS [Neuron 8: 145-158](#).

Storage

Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10194 available at:
10194: <https://www.bio-rad-antibodies.com/uploads/MSDS/10194.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

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