

Datasheet: 2080-0101

Description:	MOUSE ANTI RAT CHOLINE ACETYLTRANSFERASE
Specificity:	CHOLINE ACETYLTRANSFERASE
Other names:	ChAT
Format:	Ascites
Product Type:	Monoclonal Antibody
Clone:	1E6
Isotype:	lgG1
Quantity:	0.1 ml

Product Details

Applications This product has been reported to work in the following applications. This infe								
	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 <u>www.bio-</u>							
	rad-antibodies.com/protocols.							
		Yes	No	Not Determined	Suggested Dilution			
	Immunohistology - Frozen	-			1/100 - 1/250			
	Where this product has r	not been te	sted for us	e in a particular t	technique this does not			
	necessarily exclude its us	se in such	procedure	s. Suggested wo	rking dilutions are given as			
	a guide only. It is recomn	nended tha	t the user	titrates the produ	uct for use in their own			
	system using the approp	riate negati	ve/positive	e controls.				
Target Species	Rat							
Species Cross	Reacts with: Chicken							
Reactivity	N.B. Antibody reactivity a	and working	g condition	s may vary betw	een species. Cross			
	reactivity is derived from	testing with	nin our lab	oratories, peer-re	eviewed publications or			
	personal communication	s from the o	originators	. Please refer to	references indicated for			
	further information.							
Product Form	Ascitic Fluid							
Preservative Stabilisers	None present.							
Immunogen	Choline acetyltransferase	e purified fr	om rat bra	in.				
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** Material Safety Datasheet documentation #10194 available at: Information 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)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21	
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50	То
	Email: antibody_sales_us@bio-rad	.com	Email: antibody_sales_uk@bio-rad	.com	Email: antibody_sales_de@bio-rac	^{d.} mild a
batch/	lot specific datasheet for thi	s product, ple	ase use our online search t	ool at: bio-rad	-antibodies.com/datasheets	6

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