Datasheet: 2080-0000

Description:	GOAT ANTI HUMAN CHOLINE ACETYLTRANSFERASE
Specificity:	CHOLINE ACETYLTRANSFERASE
Other names:	ChAT
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µl

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	▪			1/500 - 1/1000
Western Blotting	▪			1/1000 - 1/5000

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

Human

Species Cross Reactivity

Reacts with: Rat, Guinea Pig, Mouse
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Serum - liquid

Preservative Stabilisers

0.2% Sodium Azide (NaN_3)

Immunogen

Human placental enzyme.

External Database Links

UniProt:
P28329 Related reagents

	Entrez Gene: 1103 CHAT Related reagents
RRID	AB_2079599
Specificity	**Goat anti Human choline acetyl transferase antibody** recognizes Choline acetyl transferase, also known as ChAT. ChAT is a 748 amino acid ~70-80 kDa cytoplasmic protein present in cholinergic neurons in the brain and central nervous system, responsible for the reversible synthesis of acetylcholine from acetyl CoA and choline (Kim *et al.* 2006). Three isoforms have been described derived from alternative splicing and differing by alteration or deletion in the N-terminal region. Mutations in the CHAT gene can lead to the development of Myasthenic syndrome, congenital, 6, presynaptic (CMS6), an autosomal recessive condition characterized by failure of neuromuscular transmission, not of autoimmune origin. Suffers show variable widespread muscular fatigability worsening with physical effort (Kraner *et al.* 2003).
References	1. Ding, J. *et al.* (2017) Neuroprotection and CD131/GDNF/AKT Pathway of Carbamylated Erythropoietin in Hypoxic Neurons. Mol Neurobiol. 54 (7): 5051-60.
Storage	-20ºC only (ship +4ºC)
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10239 available at: 10239: https://www.bio-rad-antibodies.com/uploads/MSDS/10239.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) FITC, HRP

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	**Worldwide**	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M387909:210729'

Printed on 07 Jan 2022