

# Product Datasheet

## Choline Acetyltransferase/ChAT Antibody (CL3169) - BSA Free **NBP2-46650**

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:

[www.novusbio.com/NBP2-46650](http://www.novusbio.com/NBP2-46650)

Updated 9/9/2025 v.20.1

**Earn rewards for product reviews and publications.**

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP2-46650](http://www.novusbio.com/reviews/destination/NBP2-46650)



**NBP2-46650**

Choline Acetyltransferase/ChAT Antibody (CL3169) - BSA Free

**Product Information**

|                      |  |
|----------------------|--|
| <b>Unit Size</b>     | 0.1 ml   |
| <b>Concentration</b> | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| <b>Storage</b>       | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.                           |
| <b>Clonality</b>     | Monoclonal   |
| <b>Clone</b>         | CL3169   |
| <b>Preservative</b>  | 0.02% Sodium Azide   |
| <b>Isotype</b>       | IgG1   |
| <b>Purity</b>        | Protein A purified   |
| <b>Buffer</b>        | PBS (pH 7.2) and 40% Glycerol  |

**Product Description**

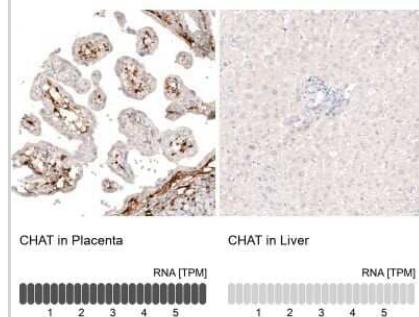
|                         |  |
|-------------------------|--|
| <b>Description</b>      | Novus Biologicals Mouse Choline Acetyltransferase/ChAT Antibody (CL3169) - BSA Free (NBP2-46650) is a monoclonal antibody validated for use in IHC. All Novus Biologicals antibodies are covered by our 100% guarantee.  |
| <b>Host</b>             | Mouse  |
| <b>Gene ID</b>          | 1103   |
| <b>Gene Symbol</b>      | CHAT   |
| <b>Species</b>          | Human, Mouse, Rat  |
| <b>Reactivity Notes</b> | Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions |
| <b>Immunogen</b>        | This antibody was developed using a recombinant protein derived from P28329, with the exact immunogen sequence remaining proprietary.  |

**Product Application Details**

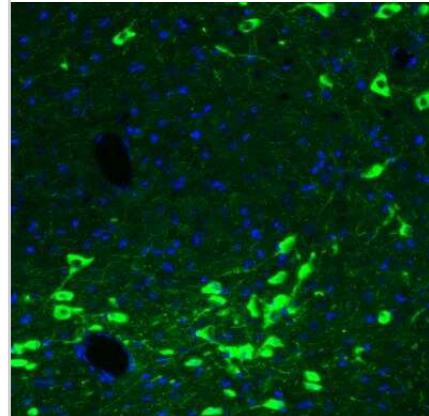
|                              |   |
|------------------------------|---|
| <b>Applications</b>          | Immunohistochemistry-Paraffin, Immunohistochemistry                               |
| <b>Recommended Dilutions</b> | Immunohistochemistry 1:500 - 1:1000, Immunohistochemistry-Paraffin 1:500 - 1:1000 |
| <b>Application Notes</b>     | For IHC-Paraffin, HIER pH 6 retrieval is recommended.                             |

## Images

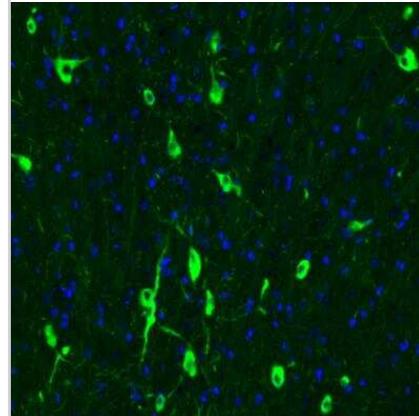
Immunohistochemistry-Paraffin: Choline Acetyltransferase/ChAT Antibody (CL3169) [NBP2-46650] - Choline Acetyltransferase/ChAT Antibody (3169) [NBP2-46650] - Staining in human placenta and liver tissues. Corresponding CHAT RNA-seq data are presented for the same tissues.



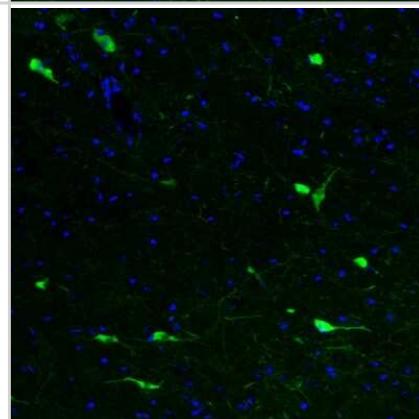
Immunohistochemistry: Choline Acetyltransferase/ChAT Antibody (CL3169) [NBP2-46650] - Staining of rat brain shows strong cytoplasmic positivity in acetylcholine neurons in the basal forebrain.



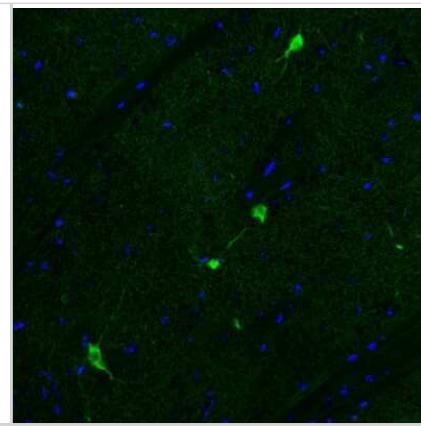
Immunohistochemistry: Choline Acetyltransferase/ChAT Antibody (CL3169) [NBP2-46650] - Staining of rat brain shows strong cytoplasmic positivity in acetylcholine neurons in the medial septum.



Immunohistochemistry: Choline Acetyltransferase/ChAT Antibody (CL3169) [NBP2-46650] - Staining of mouse brain shows strong cytoplasmic positivity in acetylcholine neurons in the basal forebrain.



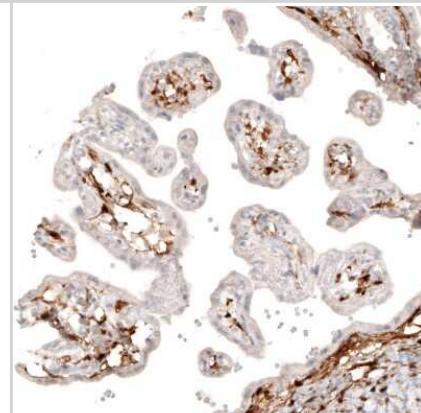
Immunohistochemistry: Choline Acetyltransferase/ChAT Antibody (CL3169) [NBP2-46650] - Staining of mouse basal forebrain shows strong positivity in acetylcholine neurons in the caudate putamen.



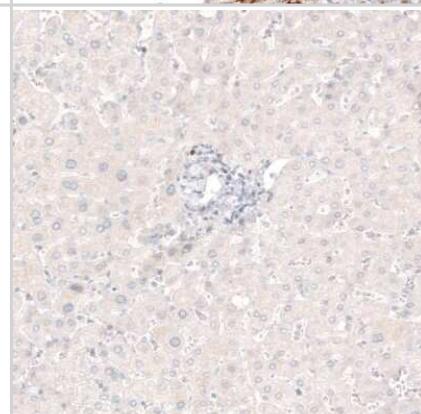
Immunohistochemistry-Paraffin: Choline Acetyltransferase/ChAT Antibody (CL3169) [NBP2-46650] - Staining of human cerebral cortex shows positivity in cholinergic neural fibers.



Immunohistochemistry-Paraffin: Choline Acetyltransferase/ChAT Antibody (CL3169) [NBP2-46650] - Staining of human placenta shows strong cytoplasmic positivity in a subset of cells in chorionic villi.



Immunohistochemistry-Paraffin: Choline Acetyltransferase/ChAT Antibody (CL3169) [NBP2-46650] - Staining of human liver shows no positivity in hepatocytes as expected.





## Novus Biologicals USA

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

## Bio-Techne Canada

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

## Bio-Techne Ltd

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

## General Contact Information

[www.novusbio.com](http://www.novusbio.com)  
Technical Support: [nb-technical@bio-techne.com](mailto:nb-technical@bio-techne.com)  
Orders: [nb-customerservice@bio-techne.com](mailto:nb-customerservice@bio-techne.com)  
General: [novus@novusbio.com](mailto:novus@novusbio.com)

## Products Related to NBP2-46650

|                  |  |
|------------------|--|
| NBP2-46650PEP    | Choline Acetyltransferase/ChAT Recombinant Protein Antigen |
| HAF007           | Goat anti-Mouse IgG Secondary Antibody [HRP]               |
| NB720-B          | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]    |
| NBP1-97005-0.5mg | Mouse IgG1 Isotype Control (MG1)                           |

## Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP2-46650](http://www.novusbio.com/reviews/submit/NBP2-46650)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)