

Product Datasheet

Choline Acetyltransferase/ChAT Antibody (CL3173) - BSA Free NBP2-46620

Unit Size: 0.1 ml

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

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NBP2-46620

Choline Acetyltransferase/ChAT Antibody (CL3173) - BSA Free

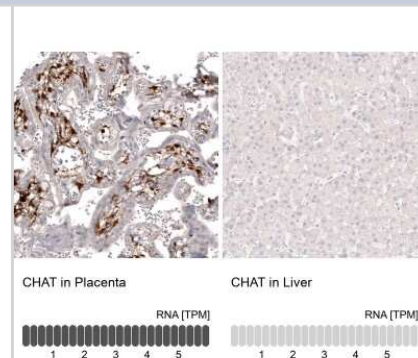
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CL3173
Preservative	0.02% Sodium Azide
Isotype	IgG2b
Purity	Protein A purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Mouse
Gene ID	1103
Gene Symbol	CHAT
Species	Human, Mouse, Rat
Reactivity Notes	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
Immunogen	This antibody was developed using a recombinant protein derived from P28329, with the exact immunogen sequence remaining proprietary.

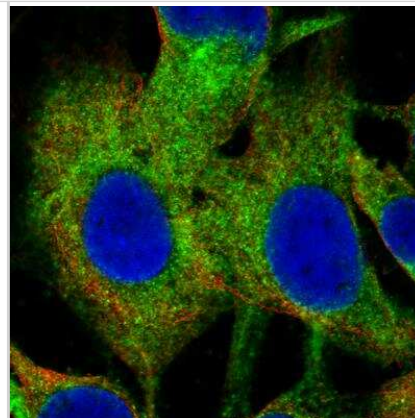
Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 2-10 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation/Permeabilization: PFA/Triton X-100.

Images

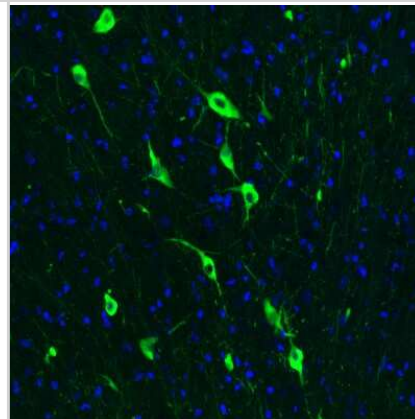
Immunohistochemistry-Paraffin: Choline Acetyltransferase/ChAT Antibody (CL3173) [NBP2-46620] - Staining in human placenta and liver tissues. Corresponding CHAT RNA-seq data are presented for the same tissues.



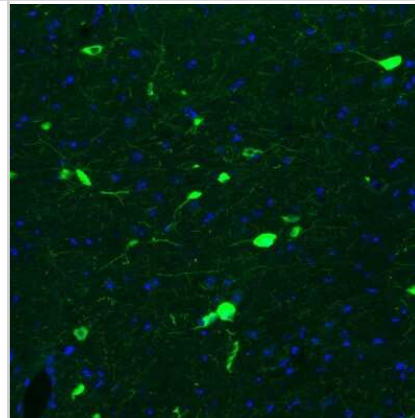
Immunocytochemistry/Immunofluorescence: Choline Acetyltransferase/ChAT Antibody (CL3173) [NBP2-46620] - Staining of SK-MEL-30 cells using the Anti-CHAT monoclonal antibody, showing specific staining in the cytosol in green. Microtubule- and nuclear probes are visualized in red and blue, respectively (where available). Antibody staining is shown in green.



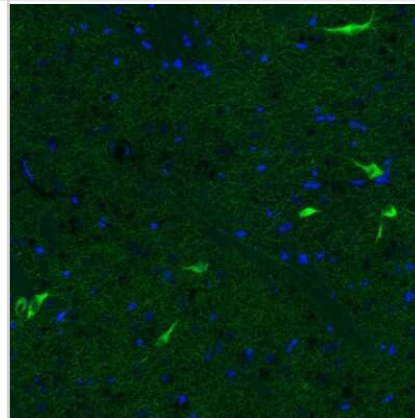
Immunohistochemistry-Paraffin: Choline Acetyltransferase/ChAT Antibody (CL3173) [NBP2-46620]



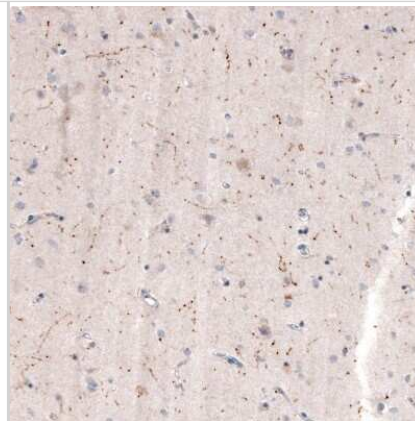
Immunohistochemistry: Choline Acetyltransferase/ChAT Antibody (CL3173) [NBP2-46620] - Staining of mouse brain shows strong positivity in acetylcholine neurons in the basal forebrain.



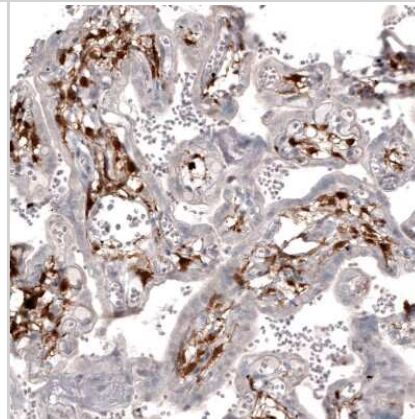
Immunohistochemistry: Choline Acetyltransferase/ChAT Antibody (CL3173) [NBP2-46620] - Staining of mouse basal forebrain shows strong positivity in acetylcholine neurons in the caudate putamen.



Immunohistochemistry-Paraffin: Choline Acetyltransferase/ChAT Antibody (CL3173) [NBP2-46620] - Staining of human cerebral cortex shows moderate positivity in cholinergic neural fibers.



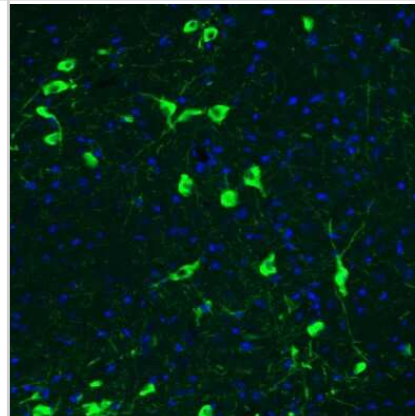
Immunohistochemistry-Paraffin: Choline Acetyltransferase/ChAT Antibody (CL3173) [NBP2-46620] - Staining of human placenta shows strong cytoplasmic positivity in a subset of cells in chorionic villi.



Immunohistochemistry-Paraffin: Choline Acetyltransferase/ChAT Antibody (CL3173) [NBP2-46620] - Staining of human liver shows no positivity in hepatocytes as expected.



Immunohistochemistry: Choline Acetyltransferase/ChAT Antibody (CL3173) [NBP2-46620] - Staining of rat brain shows strong positivity in acetylcholine neurons in the basal forebrain.



Publications

Harley P, Kerins C, Gatt A et al. Aberrant axon initial segment plasticity and intrinsic excitability of ALS hiPSC motor neurons Cell reports 2023-11-28 [PMID: 38019651]

Farid H, Gelford WB, Goss LL et al. Fast Blue and Cholera Toxin-B Survival Guide for Alpha-Motoneurons Labeling: Less Is Better in Young B6SJL Mice, but More Is Better in Aged C57Bl/J Mice Bioengineering (Basel, Switzerland) 2023-01-20 [PMID: 36829635] (IHC, Mouse)

Balraj A, Clarkson-Paredes C, Miller RH Loss of optic nerve oligodendrocytes during maturation alters retinal organization Experimental eye research 2023-06-24 [PMID: 37364629]

Jarret A, Jackson R, Duizer C et al. Enteric Nervous System-Derived IL-18 Orchestrates Mucosal Barrier Immunity Cell 2020-01-09 [PMID: 31923399] (Mouse)

Raza SA, Albrecht A, Calkan G et al. HIPP neurons in the dentate gyrus mediate the cholinergic modulation of background context memory salience Nat Commun 2017-08-04 [PMID: 28775269] (IF/IHC, Mouse)





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
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-46620

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
H00001103-Q01-10ug	Recombinant Human Choline Acetyltransferase/ChAT GST (N-Term) Protein

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.

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