

# Product Datasheet

## Choline Acetyltransferase/ChAT Antibody (CL3173) - Azide and BSA Free NBP3-43796

Unit Size: 100 ug

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

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**NBP3-43796**

Choline Acetyltransferase/ChAT Antibody (CL3173) - Azide and BSA Free

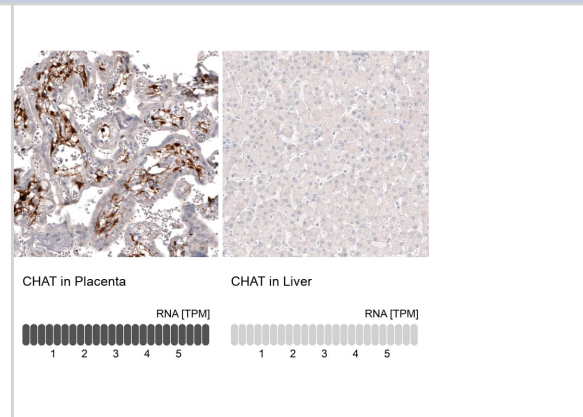
Product Information	
Unit Size	100 ug
Concentration	LYOPH mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CL3173
Preservative	No Preservative
Reconstitution Instructions	Centrifuge the vial of lyophilized antibody at 12,000 x g for 20 seconds. Reconstitute by adding sterile, distilled water to achieve a final antibody concentration of 1mg/ml.
Isotype	IgG2b
Purity	Protein A purified
Buffer	Lyophilized from a 0.2 um filtered solution in PBS with Trehalose

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

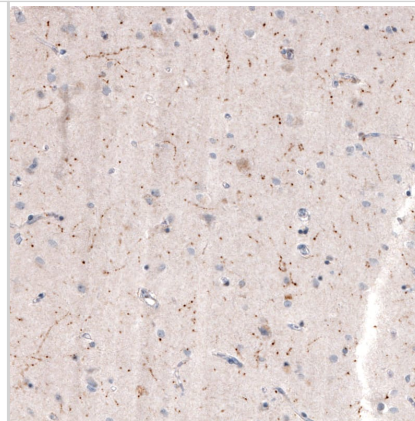
Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunocytochemistry/ Immunofluorescence 2-10 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.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

**Images**

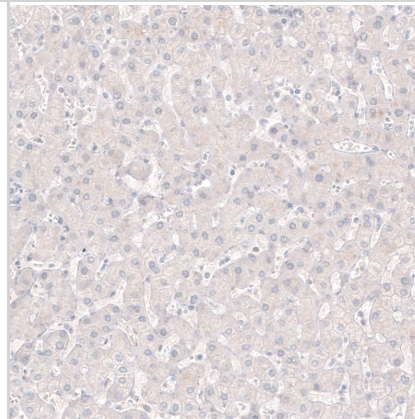
Analysis in human placenta and liver tissues using NBP3-43796 antibody. Corresponding Choline Acetyltransferase/ChAT RNA-seq data are presented for the same tissues.



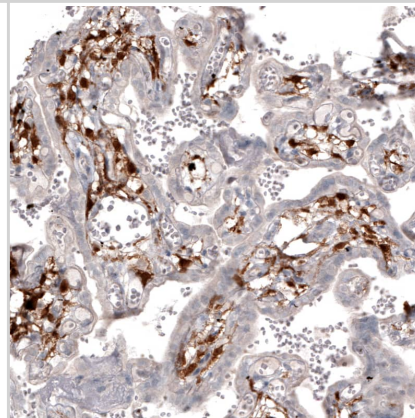
Staining of human cerebral cortex shows moderate positivity in cholinergic neural fibers.



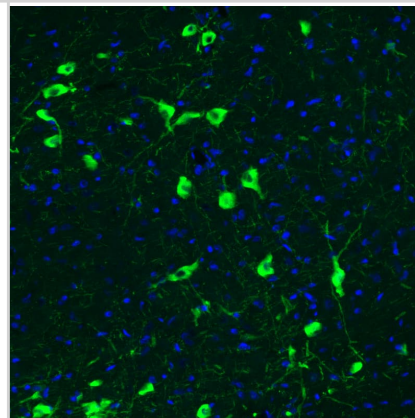
Staining of human liver shows no positivity in hepatocytes as expected.



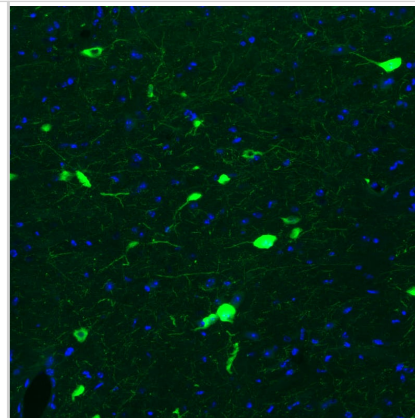
Staining of human placenta shows strong cytoplasmic positivity in a subset of cells in chorionic villi.



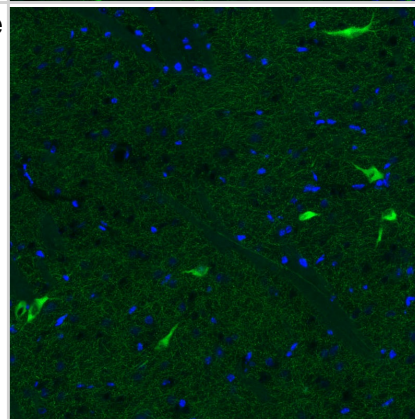
Staining of rat brain shows strong positivity in acetylcholine neurons in the basal forebrain.



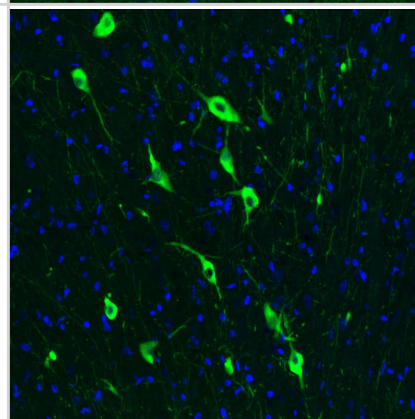
Staining of mouse brain shows strong positivity in acetylcholine neurons in the basal forebrain.



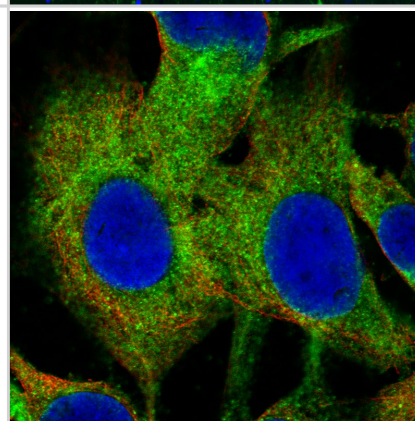
Staining of mouse basal forebrain shows strong positivity in acetylcholine neurons in the caudate putamen.



Staining of rat brain shows strong positivity in acetylcholine neurons in the medial septum.



Staining of SK-MEL-30 cells using the Anti-Choline Acetyltransferase/ChAT monoclonal antibody .





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### Products Related to NBP3-43796

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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

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### 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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