

Choline Acetyltransferase Antibody
Rabbit polyclonal antibody
Catalog # AN1139

Specification

Choline Acetyltransferase Antibody - Product Information

Application	WB
Primary Accession	P28329
Reactivity	Mouse
Host	rabbit
Clonality	polyclonal
Calculated MW	70 KDa

Choline Acetyltransferase Antibody - Additional Information

Gene ID	1103
Gene Name	CHAT

Target/Specificity

Native choline acetyltransferase purified from human placenta.

Dilution

WB~~ 1:1000

Format

Specific for the ~ 68/70 k choline acetyltransferase protein

Antibody Specificity

Neat serum

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Choline Acetyltransferase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

Blue Ice

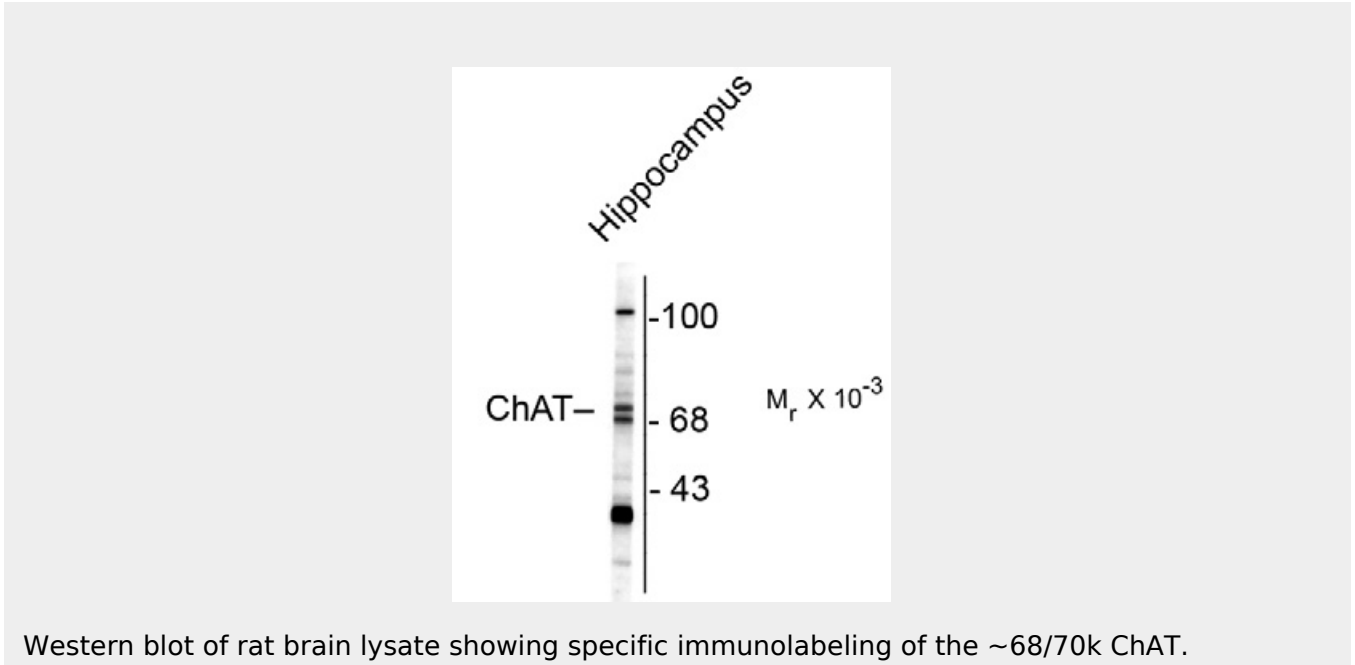
Choline Acetyltransferase Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Choline Acetyltransferase Antibody - Images



Choline Acetyltransferase Antibody - Background

Choline acetyltransferase is a neuronal enzyme which catalyzes the reaction between Acetyl CoA and choline resulting in the formation of acetylcholine. It is therefore found primarily in cholinergic neurons making it a valuable marker for diseases associated with decreased cholinergic function such as Schizophrenia, Alzheimer disease (AD) and Down syndrome (Holt et al. 1999). Decreased choline acetyltransferase activity in particular has been shown in Schizophrenic subjects (Karson et al 1993). It has furthermore been demonstrated that in patients with AD, there are significantly lower levels of cortical ChAT that correlate with severity of the disease as measured by loss of neuropsychological function (Baskin et al. 1999).

Choline Acetyltransferase Antibody - References

- Karson CN, Casanova MF, Kleinman JE, Griffin WS (1993) Choline acetyltransferase in schizophrenia. *Am. J. Psychiatry* 150:454-459.
- Holt DJ, Herman MM, Hyde TM, Kleinman JE, Cinton CM, German DC, Hersh LB, Greybiel AM, Saper CB (1999) Evidence for a deficit in cholinergic interneurons in the striatum in schizophrenia. *Neuroscience* 94(1):21-31.
- Baskin DS, Browning JL, Pirozzolo FJ, Korporaal S, Baskin JA, Appel SH (1999) Brain choline acetyltransferase and mental function in Alzheimer disease. *Arch Neurol.* 56:1121-1123.