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anti-Choline Acetyltransferase antibody (N-Term)





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Overview		
Quantity:	100 μg	
Target:	Choline Acetyltransferase (CHAT)	
Binding Specificity:	N-Term	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)	
Product Details		
Immunogen:	Synthetic peptide from the N-terminal to the mid-protein of human Choline O-Acetyltrasferase Predicted molecular weight at ~82.5 kDa. Observed molecular weights between 68-70 kDa.	
Specificity:		
Cross-Reactivity:	Human, Mouse	
Purification:	Peptide Affinity Purified	
Target Details		
Target:	Choline Acetyltransferase (CHAT)	
Alternative Name:	Choline Acetyltransferase (CHAT Products)	
Background:	ound: Acetylcholine (ACh) is a common neurotransmitter for motoneurons, preganglionic au neurons, postganglionic parasympathetic neurons, a variety of brain regions and some emerging neuron-like stem cells. The metabolism of Ach is relatively simple, involving enzymes: choline acetyltransferase (ChAT) for synthesis and acetylcholinesterase (AC	

Target Details

Schizophrenia, Alzheimer disease and Down syndrome (1-3).
valuable marker for diseases associated with decreased cholinergic function such as
amounts of ChAT making anti-choline acetyltransferase a useful specific marker. ChAT is a
and seems to be neuron specific. It seems that only cholinergic neurons have significant
degradation. Further, acetylcholine has little function in neurons other than neurotransmission

Gene ID: 1103

NCBI Accession: NP_001136401

UniProt: P28329

Pathways: Skeletal Muscle Fiber Development

Application Details

Application Notes: • WB (1:1000)

• ICC/IF (1:100)

• optimal dilutions for assays should be determined by the user.

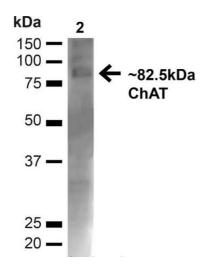
Comment: A 1:1000 dilution of ABIN2869094 was sufficient for detection of Choline Acetyltransferase on

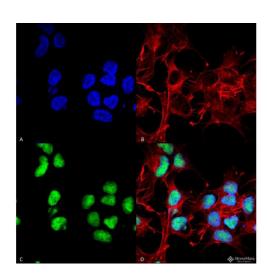
mouse brain lysates using Goat anti-rabbit IgG:HRP as the secondary antibody.

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C





Western Blotting

Image 1. Western blot analysis of Mouse Brain showing detection of ~82.5 kDa Choline Acetyltransferase protein using Rabbit Anti-Choline Acetyltransferase Polyclonal Antibody (ABIN2869094). Lane 1: MW Ladder. Lane 2: Mouse Brain (20 μg). Load: 20 μg. Block: 5 % milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-Choline Acetyltransferase Polyclonal Antibody (ABIN2869094) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~82.5 kDa.

Immunofluorescence (fixed cells)

Immunocytochemistry/Immunofluorescence 2. **Image** analysis using Rabbit Anti-Choline Acetyltransferase Polyclonal Antibody . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min Primary Antibody: Rabbit Anti-Choline Acetyltransferase Polyclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Choline Acetyltransferase Antibody (D) Composite.