

Datasheet for ABIN2869110

anti-Choline Acetyltransferase antibody (N-Term) (PE)

2 Images



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Quantity:	100 μg	
Target:	Choline Acetyltransferase (CHAT)	
Binding Specificity:	N-Term	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This Choline Acetyltransferase antibody is conjugated to PE	
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	
Specificity:	Predicted molecular weight at ~82.5 kDa. Observed molecular weights between 68-70 kDa.	
Cross-Reactivity:	Human, Mouse	
Purification:	Peptide Affinity Purified	
Target Details		
Target:	Choline Acetyltransferase (CHAT)	
Alternative Name:	Choline Acetyltransferase (CHAT Products)	
Background:	Acetylcholine (ACh) is a common neurotransmitter for motoneurons, preganglionic autonomic	
	neurons, postganglionic parasympathetic neurons, a variety of brain regions and some	

emerging neuron-like stem cells. The metabolism of Ach is relatively simple, involving only two
enzymes: choline acetyltransferase (ChAT) for synthesis and acetylcholinesterase (AChE) for
degradation. Further, acetylcholine has little function in neurons other than neurotransmission
and seems to be neuron specific. It seems that only cholinergic neurons have significant
amounts of ChAT making anti-choline acetyltransferase a useful specific marker. ChAT is a
valuable marker for diseases associated with decreased cholinergic function such as
Schizophrenia, Alzheimer disease and Down syndrome (1-3).

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.

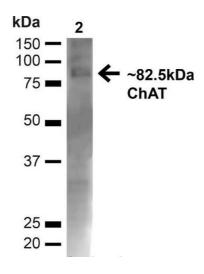
Comment: A 1:1000 dilution of ABIN2869110 was sufficient for detection of Choline Acetyltransferase on

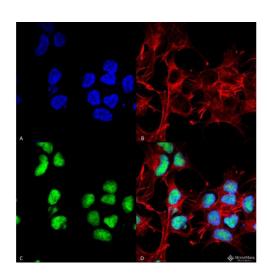
mouse brain lysates using Goat anti-rabbit IgG:HRP as the secondary antibody.

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:	4 °C	
Storage Comment:	Conjugated antibodies should be stored at 4°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 (ABIN2869110). 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 (ABIN2869110) 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.