

ChAT

Cat.No. 297 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: not recommended IHC: not recommended IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 357 to 374 and 622 to 640 from rat ChAT (UniProt Id: P32738)
Reactivity	Reacts with: rat (P32738), mouse (Q03059). Other species not tested yet.
Specificity	Specific for ChAT.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Cholinergic neurons are involved in numerous neurological functions. 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. Two enzymes; choline acetyltransferase (**ChAT**) and acetylcholinesterase (AChE) are involved in the metabolism of ACh.

Selected General References

Two mRNAs are transcribed from the human gene for choline acetyltransferase.

Lorenzi MV, Trinidad AC, Zhang R, Strauss WL

DNA and cell biology (1992) 11(8): 593-603.

Estradiol increases choline acetyltransferase activity in specific basal forebrain nuclei and projection areas of female rats.

Luine VN

Experimental neurology (1985) 89(2): 484-90.