Targeting Tools: Featured Products

anti-ChAT *Cat. #AB-N34*

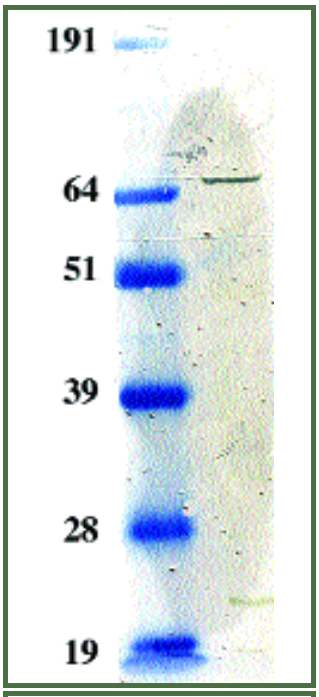

Fig. 1
Lane 1: Molecular weight standards (Novex, See-Blue)
Lane 2: 25 mg of PC12 whole cell extract probed with AB-N34 at 1:2000 dilution.

ATS is pleased to present a polyclonal antibody specific for ChAT protein. Choline acetyltransferase (ChAT) catalyzes the synthesis of the neurotransmitter acetylcholine (ACh) from choline and acetyl-CoA in cholinergic neurons. ChAT serves as a specific marker for cholinergic neurons in both the peripheral and central nervous systems. Dysfunction of cholinergic neurons underlies aspects of clinical symptoms found in neurological and psychiatric disorders such as Alzheimer's disease, Down and Rett syndromes.

The peptide sequence used for immunization has a high degree of homology between rat, human, mouse and pig. We have demonstrated the specificity of anti-ChAT by western blot analysis (Fig. 1) and immunohistochemistry (Figs. 2, 3). Anti-ChAT detects ChAT protein in cholinergic neurons of rat spinal cord, forebrain (Fig. 3) and PC12 cells (Fig. 2). Due to the fact that our ChAT antibody has a very high titer (1:5,000,000 dilution in ELISA and 1:2000-4000 in immuohistochemistry), it is provided as whole sera in 50% glycerol (Cat. #AB-N34). An affinity purified form of anti-ChAT is also available (Cat. #AB-N34AP).

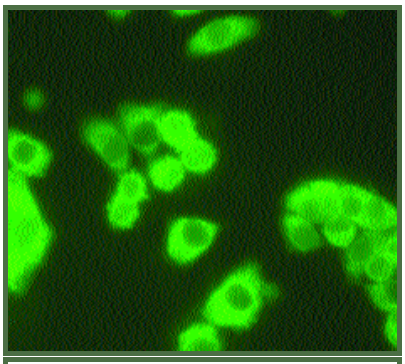

Fig. 2 Fluorescent staining of endogenous ChAT in cytoplasm of PC12 cells. Dr. Majid Pajouh, Advanced Targeting Systems, San Diego, CA.

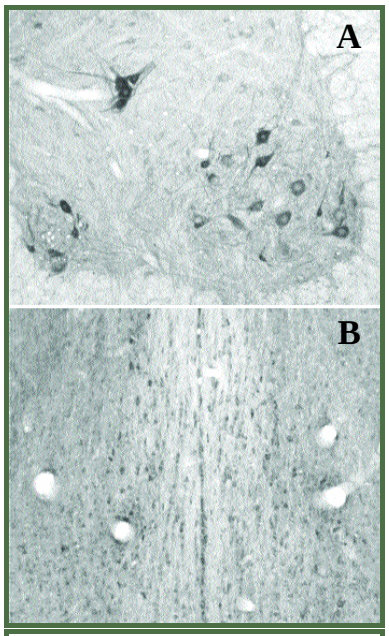

Fig. 3 A fixed section of rat spinal cord (A) and forebrain (B) was stained with our anti-ChAT (1:2000-4000 dilution). Courtesy of Dr. Ronald G. Wiley. and Robert Kline at Vanderbilt University, Nashville, TN.

Visit the ATS website for a complete list of products.

MORE New Antibodies

AB-L001	Muscarinic Acetylcholine Receptor M2	Human; Mouse; Rat
AB-L002	Muscarinic Acetylcholine Receptor M3	Human; Mouse; Rat
AB-L003	Muscarinic Acetylcholine Receptor M4	Human; Mouse; Rat
AB-L004	Muscarinic Acetylcholine Receptor M5	Human; Mouse; Rat
AB-L056	Dopamine Receptor D1	Human; Mouse; Rat
AB-L059	Endothelin A Receptor	Human; Mouse; Rat
AB-L072	GABA(B) Receptor 1	Human; Mouse; Rat
AB-L073	Galanin Receptor GalR1	Human; Mouse; Rat
AB-L074	Galanin Receptor GalR2	Human; Mouse; Rat
AB-L075	Galanin Receptor GalR3	Human; Mouse; Rat
AB-L122	Neuropeptide FF 1 Receptor	Human; Mouse; Rat
AB-L124	Neuropeptide Y Receptor Type 1	Human; Mouse; Rat
AB-L125	Neuropeptide Y Receptor Type 4	Human; Mouse; Rat
AB-L126	Neuropeptide Y Receptor Type 5	Human; Mouse; Rat
AB-L140	Opioid Receptor, Delta 1 (OPRD1)	Human; Mouse; Rat
AB-L141	Opioid Receptor, Mu 1 (OPRM1)	Human; Mouse; Rat

Gangsta. . . the mighty elk!?